Document ID:	0002	-
NON-EXEMPT	PARTIALLY EXEMPT	EXEMPT

CF: DE, DDE, DP, COS, Wicker, Beter, Corbett, Lamson

#### **Board of Commissioners**

Ann Holton Chairman At Large

Paul Delamar Vice-Chairman At Large

Pat Prescott Township #1

Christine Mele Township #2

Jimmy Spain Township # 3

Carl Ollison Township # 4

Kenny Heath Township # 5



### COUNTY OF PAMLICO .

POST OFFICE BOX 776
BAYBORO, NORTH CAROLINA
28515
(252) 745-3133 / 745-5195
FAX (252) 745-5514

Timothy A. Buck

Clerk to the Board Kathy P. Cayton

County Attorney Jimmie B. Hicks, Jr.

November 5, 2013

Colonel Steven A. Baker Commander, Wilmington District U.S. Army Corps of Engineers 69 Darlington Avenue Wilmington, NC 28403

Re: Wetland determination, Spring Creek Farms, LLC

### Dear Col. Baker:

It is our understanding that the U.S. Army Corps of Engineers has determined that an approximately 251 acre tract of former forested land near Merritt owned by Spring Creek Farms, LLC of Petersburg, Illinois does not include wetlands. The owners of the tract are currently engaged in ditching and land clearing activities that appear to be for the purpose of converting the forested land to a new agricultural use. The Pamlico County Commissioners request that the Corps review its determination that this tract of land does not include wetlands. We further request that the Corps investigate previous drainage activities on this site and the effect of these activities on the hydrology and wetlands on the site.

The County is concerned that clearing, drainage and conversion of this tract from forest to agricultural land will increase the risk of flooding in low lying areas, destroy wildlife habitat, and degrade coastal water quality and fisheries. Pamlico County's farmers work hard to maintain their farms, produce crops, and comply with state and federal environmental requirements. Farmland immediately uphill and adjacent to this 251 acres is designated as "prior converted wetlands" by the Natural Resources Conservation Service, and it makes no sense that this farmland would have once been wetlands while the lower, and wetter property just downhill from these farm fields has been determined not be wetlands by your agency. It is important that all landowners and farmers engaged in forestry and agricultural activities be held to the same standards.

In a letter dated October 30, 2013, the Southern Environmental Law Center (Center) cites information submitted to the Corps by Spring Creek Farms, LLC that states the subject tract meets the soil and vegetation requirements for a wetland but does not meet the hydrology requirement, at least at the time the hydrology was examined on June 8, 2013 by the landowner's consultant. The Center further states that your agency concurred with this finding when it visited the site on August 7, 2013. They indicate that this submittal by Spring Creek Farms, LLC states the hydrology of the site was not "significantly disturbed" and claims "normal circumstances" were present at the time of the sampling date. Drainage ditches were present on the site at the time of the sampling date, which was not reflected in the submittal to the Corps. Aerial photographs show that a logging road was present on the tract prior to 1988 but the drainage ditches were constructed on the site between 1988 and 1993. Based upon a review of your agency files, the Center concludes no investigation was conducted to determine when these ditches were due other than relying on a Google Earth photo taken in 1993. It is our understanding that if these drainage ditches converted the site from wetland to upland sometime between 1988 and 1993 a permit from the Corps would be required. We are not aware of any permit from the Corps that authorized these drainage ditches.

We respectfully request that the Corps of Engineers review the determination that the 251 acre tract owned by Spring Creek Farms, LLC does not constitute wetlands. We further request that the Corps investigate previous drainage activities on this site, whether these activities converted the site from wetland to upland, and whether these activities were properly authorized. Finally, we request that that you or your representative appear before our county board at one of our regularly scheduled public meetings (at the earliest possible time) to inform the County of the conclusions of that investigation and the basis for a determination that the subject tract is not wetlands. We have hundreds of citizens in our county seeking answers to these same questions, and urgently await your response and explanations.

Sincerely,

Ann A. Holton Chairman

cc Honorable Richard Burr Honorable Kay Hagan Honorable Walter Jones

Document ID: \_\_\_\_\_OOO3\_\_\_\_\_



DEPARTMENT OF T

69 DARLINGTON AV. WILMINGTON, NORTH CAROLINA 28403-1343

YNON-EXEMPT

PARTIALLY EXEMPT

FXFMPT

April 15, 2014

Regulatory Division

Action ID Number: SAW-2013-01700

2014 APR 24 13:36 CWE

Ms. Molly Davis, Chief, Wetlands Enforcement Section.
Water Protection Division, Clean Water Enforcement Branch
U.S. Environmental Protection Agency
61 Forsyth Street, SW i
Atlanta, Georgia 30303-8960

Dear Ms. Davis:

This letter is in reference to the activities allegedly conducted in waters of the United States, specifically wetlands adjacent to tributaries to the Neuse and Bay Rivers, on an approximately 4,600-acre project area (known as Spring Creek Farms, LLC property), located along the south side of Florence Road (NCSR 1324), east of NC Highway 55, east of the community of Merritt, Pamlico County, North Carolina. Please reference your site visit on December 3 and 4, 2013, with Mr. Mike Wylie of your office and Ms. Emily Greer, Mr. Bill Biddlecome, and Mr. Henry Wicker of the U.S. Army Corps of Engineers, Wilmington Regulatory Division (Corps). Please also reference the EPA's Memorandum regarding this site visit, initialed by you on February 3, 3014; copy enclosed.

As you are aware, Spring Creek Farms, LLC recently acquired multiple land parcels which comprise the approximately 4,600-acre project area, on which previous land owners conducted silviculture activities. These activities included the excavation of ditches through and the subsequent side-casting of the excavated material into waters of the Unites States. Review of available aerial photography reveals that these activities occurred between 1988 and 1993; moreover, the Corps believes that the ditches excavated in wetlands removed wetland hydrology.

The District believes that the ditching activity, as described above, exceeds that allowed under 404 f (1). In this regard and in light of the Interpretive Rule recently implemented by the US EPA, and after consideration of the nature and extent of the activities that have occurred on the site, we believe it is appropriate that Region IV, US EPA provide clarification regarding activities on farming, ranching, and forestry lands that may be exempt from DA permitting requirements as provided for at 404 f (1) a. In accordance with the January 19, 1989, Memorandum of Agreement between the Department of Army (DA) and the Environmental Protection Agency (EPA) concerning Federal Enforcement for the Section 404 Program of the Clean Water Act, as well as the December 3, 2012, Memorandum for the DA and the EPA regarding Section 404 CWA enforcement coordination, the Corps, as the investigating agency, concludes that the EPA is the appropriate lead enforcement agency for the above-cited activities. Based on our February 19, 2014, telephone conversation, the Corps understands that the EPA agrees to act as the lead enforcement agency. The Corps looks forward to assisting the EPA in resolving this matter.

If you have any questions regarding this case or require any additional information, please contact me or Ms. Jennifer Frye of the Wilmington Regulatory Division, telephone 910-251-4923 or email jennifer.s.frye@usace.army.mil.

Sincerely,

Scott McLendon

Chief, Regulatory Division

Wilmington District

Enclosure

Blind Copies Furnished:

CESAW-RG/McLendon, Wicker, Frye CESAW-RG-W/Biddlecome, Greer CESAW-OC/Pruitt

Document ID: OOOS

NON-EXEMPT PARTIALLY EXEMPT EXEMPT



# North Carolina Department of Environment and Natural Resources

Division of Water Resources
Water Quality Programs
Thomas A. Reeder
Director

John E. Skvarla, III Secretary

August 13, 2013

Spring Creek Farms, LLC Attn: Mr. Benjamin L. King 346 MLK Boulevard, Suite 95 Clinton, NC 28562

Subject Property: Site Inspection

Spring Creek Farms, LLC Property Wetland Project No.: WT001531

Pamlico County

Dear Mr. King:

Pat McCrory

Governor

On August 7, 2013, Anthony Scarbraugh of the Division of Water Resources (DWR), Emily Greer of the US Army Corps of Engineers (US ACOE) and Abel Harmon, your consultant, met at the subject properties known as Pamlico County Tax Pin No(s). 6499009986 and 6498171514 located approximately 2 miles southeast of the intersection of NC Highway 55 and East Trent Road in Merritt, Pamlico County. The purpose of DWR staff inspection was to respond to a complaint of possible wetland standard violation associated with the conversion of silviculture lands to agricultural lands. During the inspection, DWR staff observed the maintenance of existing drainage ditches and on-going logging activities at the subject properties. Mr. Harmon stated that your intent was to clear the subject properties for agriculture production after receiving the applicable authorization from US ACOE. During the inspection, DWR staff observed no clearing of the subject properties that violated wetland under 15A NCAC 02B .0231.

If you have any additional questions or require additional information please call Anthony Scarbraugh in the Washington Regional Office at (252) 948-3924.

Sincerely,

Amy Adards, Regional Supervisor Surface Water Protection Section Washington Regional Office

**Enclosure: Wetland Standards** 

cc:

WaRO Files

Shelton Sullivan - WBS Compliance & Permitting Unit

Emily Greer - US ACOE Washington Office

1617 Mail Service Center, Raleigh, North Carolina 27699-1617 Location: 512 N. Salisbury St. Raleigh, North Carolina 27604 Phone: 919-807-6300 \ Fax: 919-807-6492

Internet:: www.ncwaterquality.org

Document ID:	0000	_
	PARTIALLY EXEMPT	EXEMPT



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960
APR 1 0 2014

CERTIFIED MAIL 7012 1010 0002 0759 7042 RETURN RECEIPT REQUESTED

Spring Creek Farms, LLC Mr. Benjamin L. King 346 MLK Boulevard, Suite 95 Clinton, North Carolina 28562

Re: Spring Creek Farms Site

Dear Mr. King:

I am writing to discuss the findings of a recent United States Environmental Protection Agency Region 4 field investigation of the Spring Creek Farms site located near Merritt, Pamlico County, North Carolina, near 35° 4' 47" north latitude and 76° 41' 24" west longitude (Site). The Site is also referred to as the Atlas Tract, an approximately 4,600 acre parcel mapped by the United States Fish and Wildlife Service's National Wetlands Inventory as containing predominantly forested wetlands. Additionally, the Natural Resource Conservation Service has determined that a majority of the Site contains hydric soils. On December 3-4, 2013, the EPA and the U.S. Army Corps of Engineers (Corps) conducted a joint site inspection of the Site. Mr. Abel Harmon, consultant for Spring Creek Farms, was also present during the inspection.

During that inspection the group dug pits and looked at hydrology and soils at several areas on the Site including the "251-acre" site and one forested reference area near this tract as well as three areas off Florence Road including a recently harvested "400 acre" site. Light rain was falling during the inspection of the three areas located off Florence Road, but two of the three areas appeared to be wetlands while one area was an upland timbered area. At the "400-acre" site, the EPA and the Corps inspectors found wetland hydrology within 12 inches of the surface at several soil pits. At this location Mr. Harmon noted that most but not all of the antecedent forestry ditches on the 400-acre site had been re-excavated to former depths. The Corps advised Mr. Harmon to avoid further ditch maintenance on the tract until we could reconcile the jurisdictional limits of the 400-acre site. Mr. Mike Wylie, of my staff, contacted Mr. Harmon on February 10, 2014, to discuss the findings from the inspection. During that call, Mr. Harmon informed Mr. Wylie that all the forestry and roadside ditch maintenance activities on the Atlas Tract were now complete on the Atlas Tract.

As you are aware, there is significant local interest in the status of potential jurisdictional wetlands on the Atlas Tract. Both the Corps and the EPA have been contacted by interested parties regarding Spring Creek Farms' activities on the Site and whether the current ditch maintenance and land clearing activities are in compliance with the Clean Water Act (CWA).

The EPA and the Corps found that the forestry ditches on the Atlas Tract appeared to remove wetland hydrology on two of the sites we sampled (i.e., the 251-acre site and one of the wetland areas off Florence Road). The EPA and the Corps do not have sufficient information to make a final determination regarding wetland hydrology on the 400-acre tract; however, we are concerned that recent ditch maintenance activities may have adversely impacted the Site.

The EPA and the Corps have several outstanding issues that need to be resolved with Spring Creek Farms before any further mechanical land clearing or ditch excavation and/or maintenance occurs on the Atlas Tract. The original ditch excavation apparently occurred under the pretext of minor drainage in association with the 404(f) silviculture exemptions. The ditches appear to have removed or are capable of removing wetland hydrology and are not considered minor drainage ditches exempt under the CWA. Ditch maintenance, an activity that is normally exempt under the CWA 404(f) exemptions, is not an exempt activity if the original forestry ditches exceeded minor drainage and drained the Atlas Tract without authorization under the CWA. Areas of former wetlands on the Atlas Tract, that appear to have the hydrology removed without authorization, should be considered waters of United States unless new evidence dictates otherwise. Finally, please do not conduct any further ditch maintenance, ditch construction or land clearing activities on the Atlas Tract until a meeting can be arranged with the EPA to discuss these issues.

Please contact Ms. Molly Davis, of my staff, at (404) 562-9236 or please have your attorney contact Mr. Philip Mancusi-Ungaro at (404) 562-9519 to arrange a meeting to discuss these important issues.

Sincerely.

James D. Giattina

Director

Water Protection Division

ce: Mr. Scott McLendon

U.S. Army Corps of Engineers, Wilmington District

	Document ID: 0007
•	NON-EXEMPT PARTIALLY EXEMPT EXEMPT
DAVIS HARTA	
ATTORNEYS	AT LAW

WILMINGTON

MICHAEL SCOTT DAVIS
MARK SPENCE HARTMAN
SHANNON ("MISSY") S. SPAINHOUR
I. CLARK WRIGHT, JR.

209 POLLOCK STREET

NEW BERN, NC 28560

PHONE 252-514-2828

FAX 252-514-9878

SENDER'S E-MAIL: ICW@DHWLEGAL.COM

July 22, 2014

NEW BERN

ASHEVILLE

Philip Mancusi-Ungaro, Esq. EPA Region IV 81 Forsythe Street Atlanta, GA 30303-8960

RE:

Spring Creek Farms Site

EPA Letter Dated April 10, 2014

### Dear Phil:

The purpose of this letter is to respond, on behalf of our client, Spring Creek Farms, LLC, an Illinois Limited Liability Company, to EPA Region IV's April 10, 2014 letter, addressed to an entity entitled "Spring Creek Farms, LLC" in care of a Mr. Benjamin L. King, residing in Clinton, NC. As you and I recently discussed by telephone, and as previously stated by Abel Harmon to Region IV's Mike Wylie during EPA's site visit, there is no Benjamin King associated with the correct (Illinois based) title holder owner of this property, located in Pamlico County, North Carolina, often referred to locally as "The Atlas Tract."

Our client, Spring Creek Farms, LLC, is an Illinois limited liability company and the actual property owner. The North Carolina LLC of the same name, for which Mr. King apparently serves as registered agent, is completely unrelated to this property. Our client has not yet registered with the North Carolina Secretary of State - no such registration is necessary to purchase and own real property in North Carolina. At some point in the near future, our client will in fact register to conduct business in North Carolina; I will keep you posted as to that process. In the meantime, feel free to direct any communications regarding the actual property owner to me.

With regard to the substance of Region IV's letter, I understand that you agree with me that the letter does not represent a formal stop work request (or any other form of formal agency administrative action for that matter), but rather is more accurately described as an informal notice and request for further, constructive dialogue regarding Region IV's potential concerns as stated in the letter. It is my understanding that Region IV also recognizes that any ditching work (minor drainage or otherwise) that took place on the property in the early-to-mid 1990's certainly was not performed by our client, nor known by our client prior to the Agency's and other rather public (and often inaccurate) statements being made by some local residents.

It is my understanding that there are two areas within the Atlas Tract where the United States Army Corps of Engineers ("Corps") formally has delineated such areas as non-wetlands (i.e., "uplands")

Mancusi-Ungaro, Esq. July 22, 2014 Page 2

within the meaning of Section 404 of the Clean Water Act. Enclosed please find unsigned copies of actual survey plats of these two areas – one consisting of approximately 81.21 acres; the other 258.59 acres. I am assured by our client that the Corps has indeed formally approved and signed these two wetland delineation maps, and I am in the process of attempting to obtain copies to later forward to you.

As I understand it, the approximately 81 acre area is located within non-hydric soils as confirmed by Mike Wylie during Region IV's site visit in December of last year, and was not subjected to any minor drainage ditching in the 1990's. Therefore, it is our understanding that Region IV has no issues with this area, or with any other areas of non-hydric soils within the Atlas Tract lands owned by our client. Please let me know as soon as possible if this is not the case.

With regard to the approximately 260 acre area, it is my understanding that EPA Region IV has potential concerns that some of the so-called "minor drainage" ditching activities that were carried out by prior property owners approximately 20 years ago may have exceeded the parameters of "minor drainage" as allowed under the "recapture" Section 404(f) exemptions, and may have taken place in areas that otherwise at the time would have qualified as wetland waters of the United States within the meaning of relevant provisions of the Clean Water Act. It is our understanding that EPA is concerned that if such ditching work did operate to convert wetlands to uplands, that even though it is now over 20 years later, and even though our client was neither involved nor made aware of these issues (and thus would qualify as an innocent purchaser for value), that such may represent continuing regulatory concerns to the Agency relative to our client's plans to clear such areas, maintain existing ditches, and place these fertile lands into agricultural production.

As you and I have discussed, both recently and back during the so-called Parker Tract litigation, I certainly understand Region IV's regulatory concerns regarding the scope and extent of so-called "minor drainage" ditching activities undertaken by various land owners on various properties that may (or may not) have qualified as wetland waters prior to such work, and which may (or may not) have subsequently become drained upland areas as a result of such activities. I also recognize that there is at least one reported case on the books here in the Eastern District of North Carolina that held, on the facts there, that the continued presence of improperly discharged dredged or fill materials can be considered a "continuing violation" if unlawfully placed dredged spoil remains present within wetland waters. However, having said that, I believe you and I also recognize that there are major problems with the idea that an innocent purchaser for value, decades later, could be held responsible for any such violations – not to mention the obvious problems of proof that would confront the Agency in trying to establish with any degree of certainty what the "normal circumstances" of the properties of concern were back at the time the questioned ditching work was undertaken by prior landowners.

Region IV's letter also appears to speak to a concern regarding our client's recent ditch maintenance work, though little detail provided. As you and I also discussed by telephone, it would appear to be in everyone's mutual interest to arrange for a more involved meeting – perhaps both an office meeting and further on-site meetings. In the meantime, as promised, I am enclosing a survey plat, prepared by our client's surveyor, which attempts to narrow the focus in terms of geographic areas where Region

Mancusi-Ungaro, Esq. July 22, 2014 Page 3

IV may have continuing concerns. The purpose of this map is to seek to reach an understanding with Region IV that lands located outside the labelled "Areas of Possible Concern" are areas within which our client can continue in its efforts to place such lands into economically valuable agricultural production.

With regard to the enclosed map, you will see a Legend that illustrates various areas, including: (a) overall tract boundaries; (b) the 81.21 acre area delineated by the Corps as uplands (this is part of the area that we understand Mike Wylie agrees does not contain hydric soils); (c) roadway centerlines; and (d) – importantly – a number of large drainage ditches and canals that were constructed prior to the effective wetlands regulatory authority date of 1978, which ditches/canals exert significant areas of (lawful) drainage influence (shown on the attached color map using yellow cross-hatching).

For purposes of the enclosed map, we have assumed a minimum drainage influence of 660 feet. We believe that more detailed on site evaluation may lead to expansion of that distance, but we have elected to use 660 feet as a fair, minimum starting point. As you can see, when that influence is taken into account, the remaining Areas of Possible Concern, where either recent ditch maintenance work or decades old "minor drainage" ditching took place, reduces considerably.

Using the enclosed map, we would like to reach agreement with Region IV that outside the numbered "Areas of Possible Concern," our client will remain free to continue work to place such areas into agricultural production, and that the Agency and our client would then focus further investigation efforts within these marked areas.

Finally, our client has authorized me to represent to you that it is willing to consider placing some areas of its land holdings under voluntary, permanent conservation easements designed to better protect riparian areas along surface streams, and possibly within some additional areas within the tract that we come to a meeting of the minds on in terms of potential water quality and/or habitat values, wetlands status, etc.

I look forward to working with you and others at Region IV to address and timely resolve any remaining regulatory issues. In that regard, I remain

Very truly yours,

I. Clark Wright, Jr.

ICW:icw Enclosures

cc: Client (via e-mail)

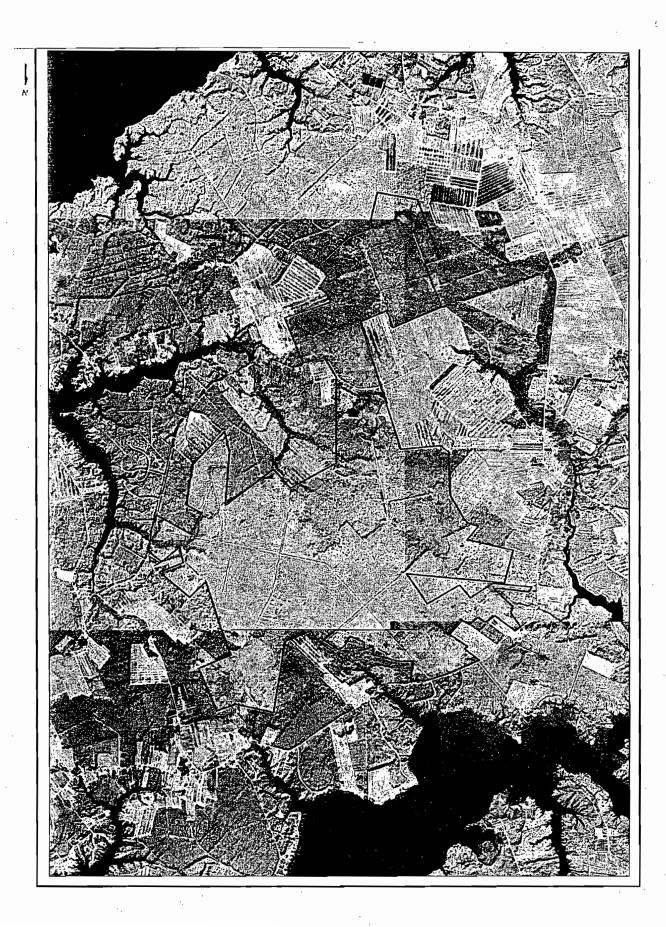
Document ID:	0009	
NON-EXEMPT	PARTIALLY EXEMPT	EXEMPT

more tic Charles lafe.
Watshib Stemary
NC CHEWS Fast Sneet.
NC CREWS Outdangs Dogument Print Close

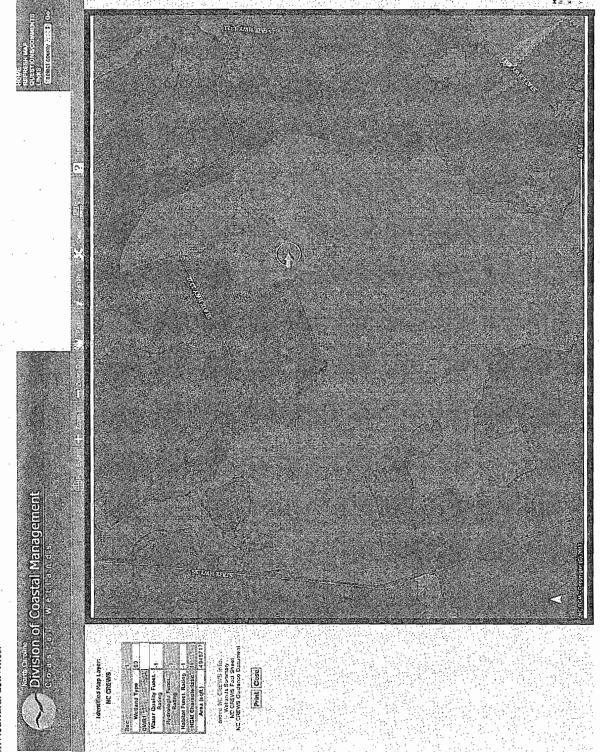
Hardwood Flat (w-type 9)

Poorly drained interstream flats not associated with rivers or estuaries. Seasonally saturated by a high water table or poor drainage. Species vary greatly but often include sweet gum and red maple.

Cutover Wetland (w-type 61-77)



Cutover Wetland (w-type 61-77)
Areas for which satellite imagery indicates a lack of vegetation in 1994. These areas are likely to still be wetlands, however, they have been recently cut over. The vegetation in cutover areas may be regenerating naturally, or the area may in use for silvicultural activities.





LEGEND & LAYER LIST

SESTITE AND LAYERS

SESTI

Auto Refresh

Retrach May

Opynight © 2007 ast update: 04/03/2007



 $\langle \gamma \rangle$ Division of Coastal Management

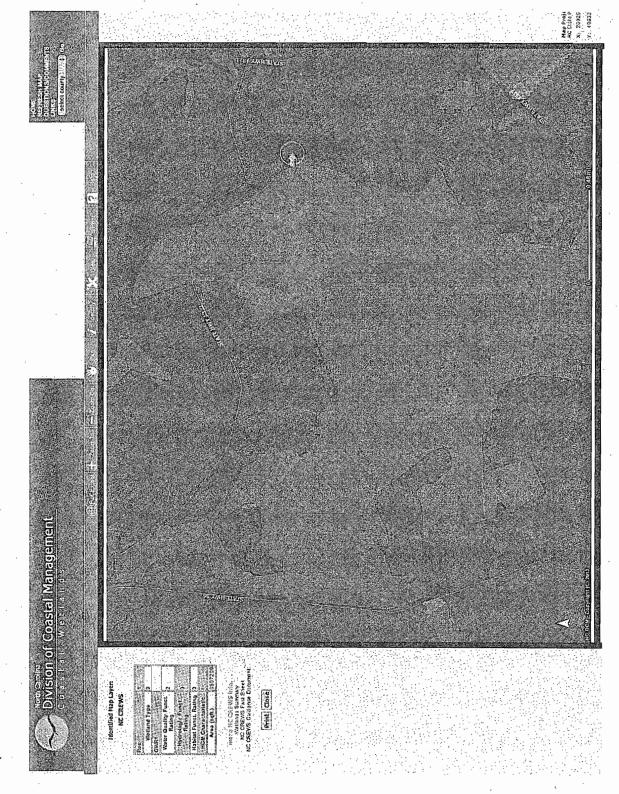
Weilands (NC CREWS)

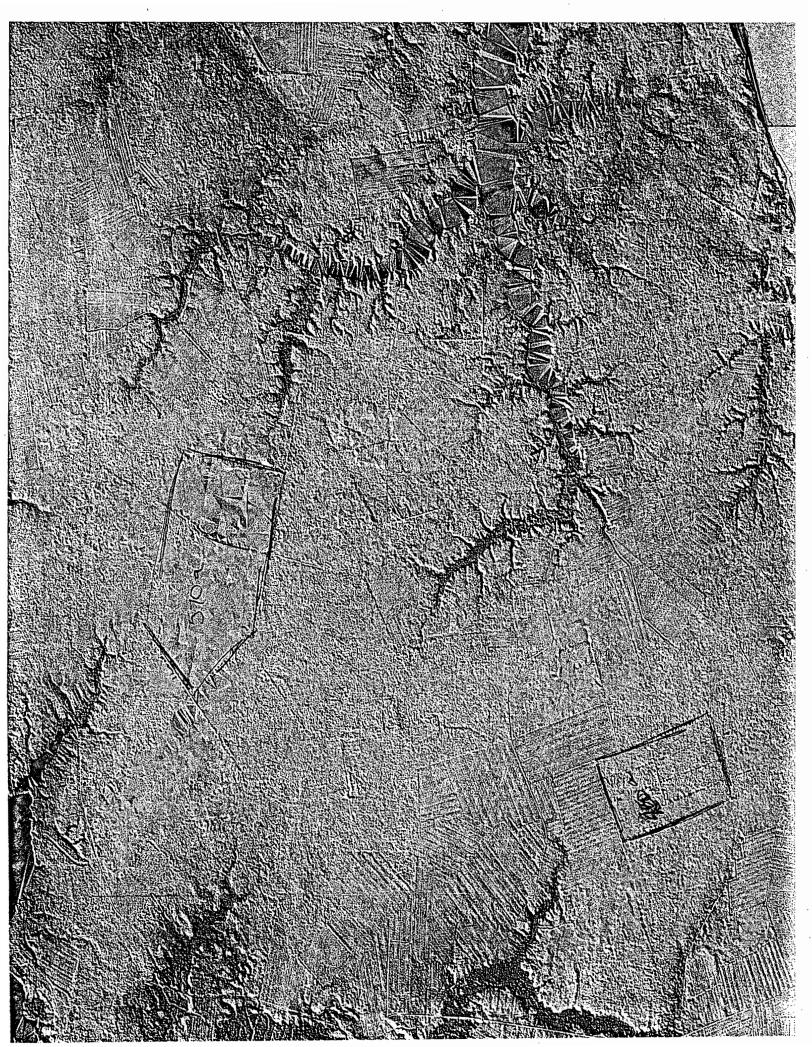
La Benafical ( Exerption)

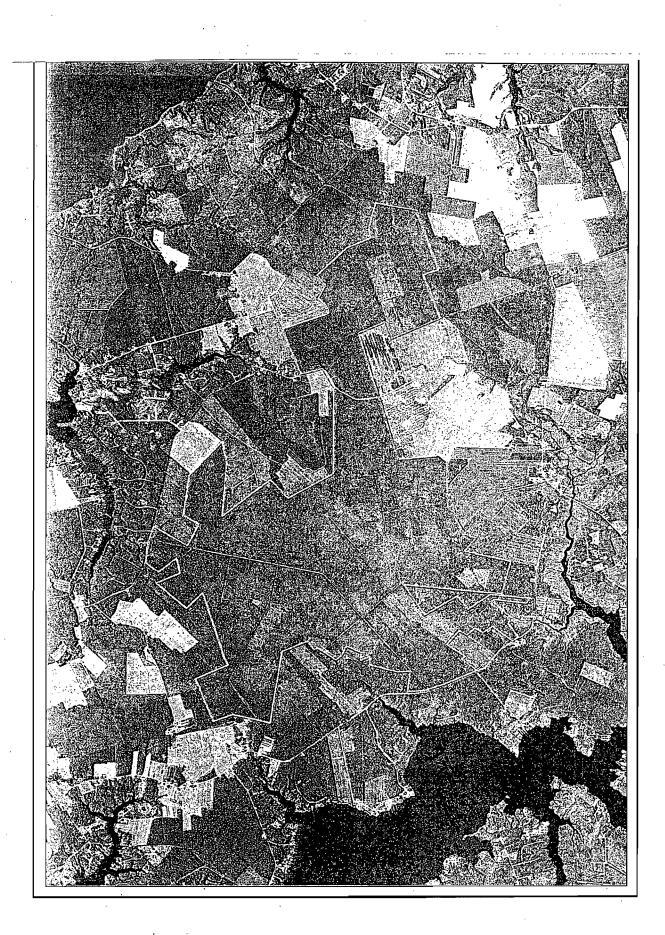
Las Substantif ( Exerption) Close

Hardwood Flat (w-type 9)

Poorly drained interstream flats not associated with rivers or estuaries. Seasonally saturated by a high water table or poor drainage. Species vary greatly but often include sweet gum and red maple.

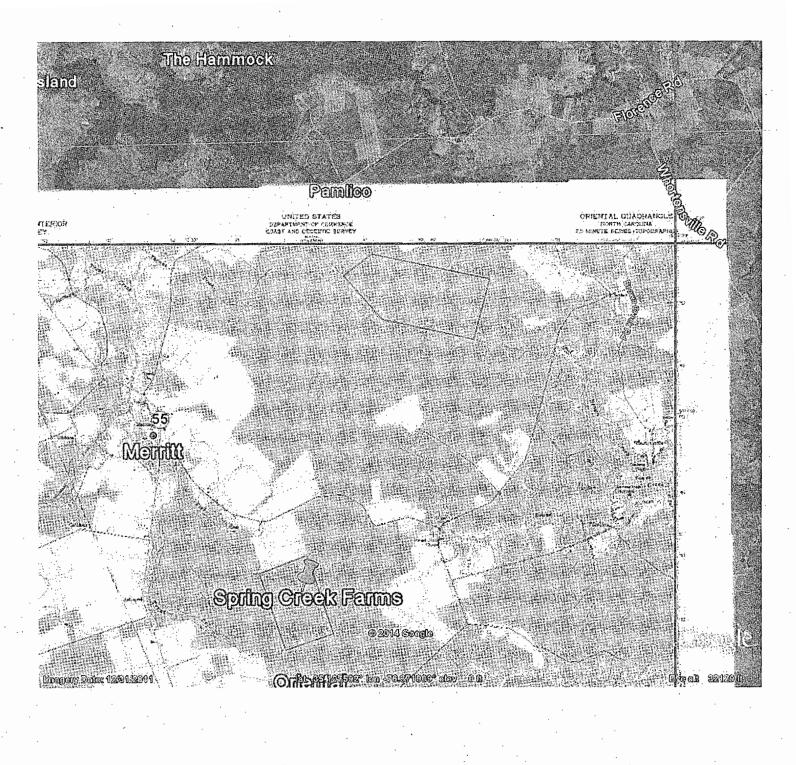


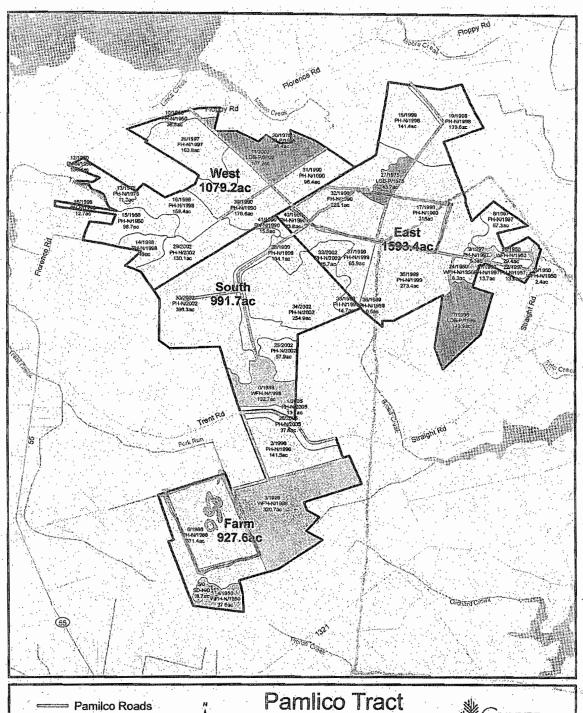










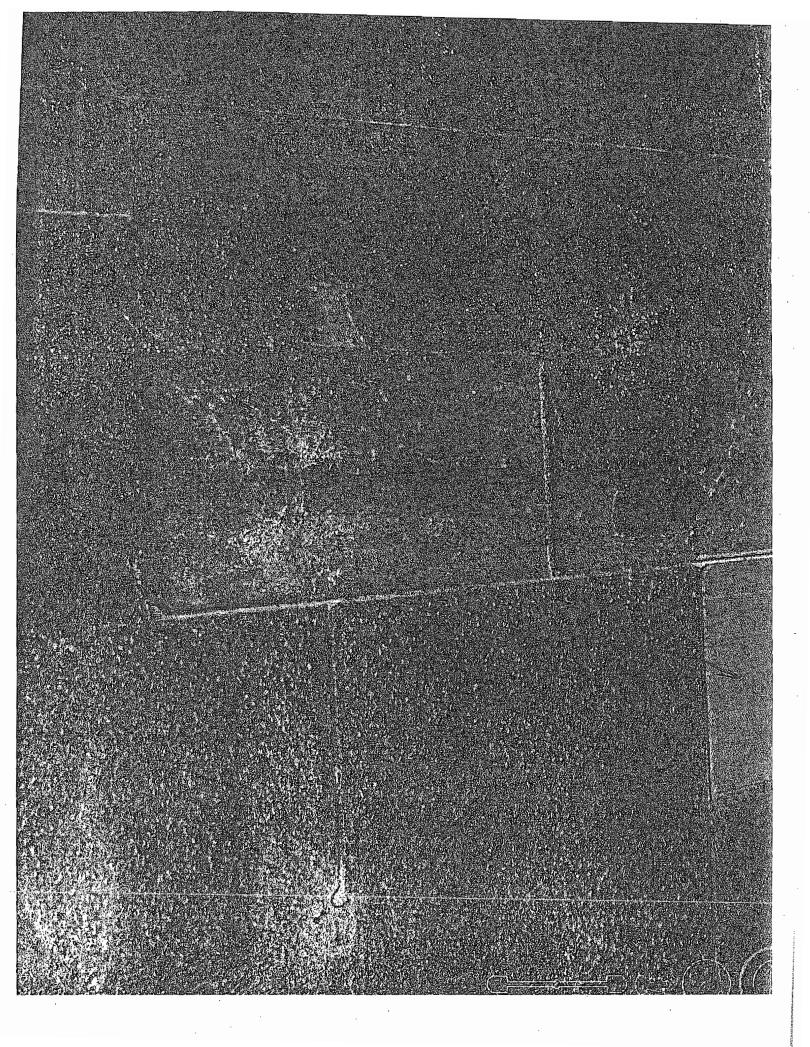


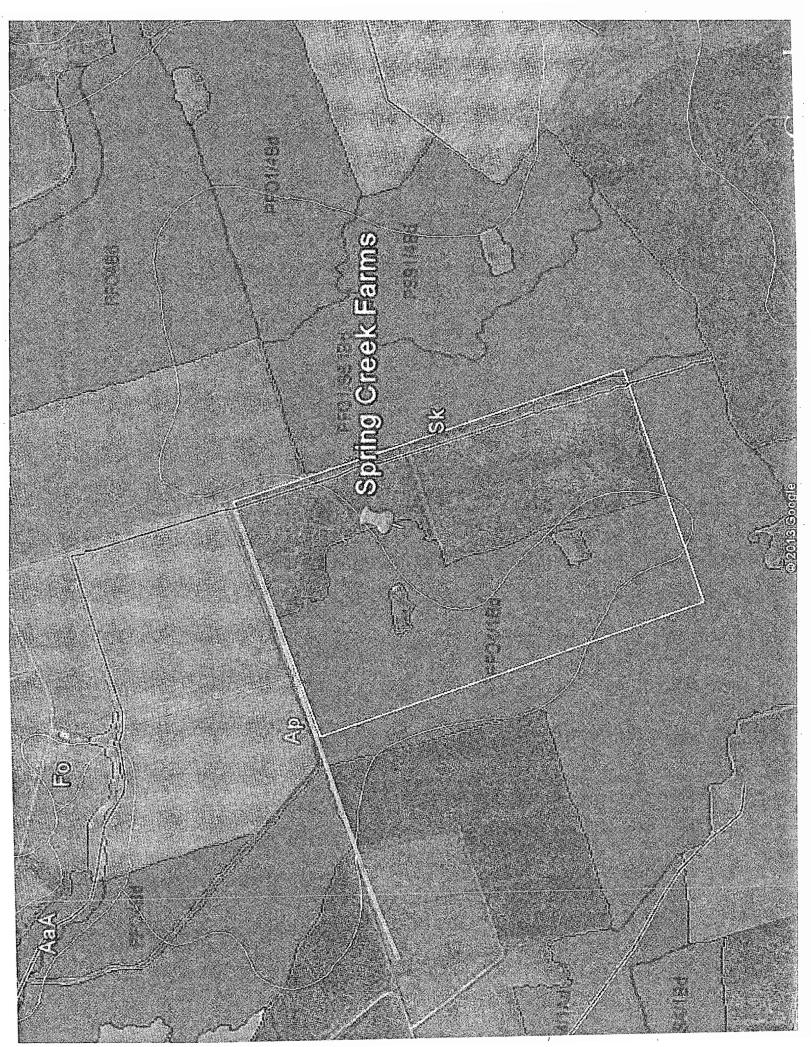
Pamilco Roads

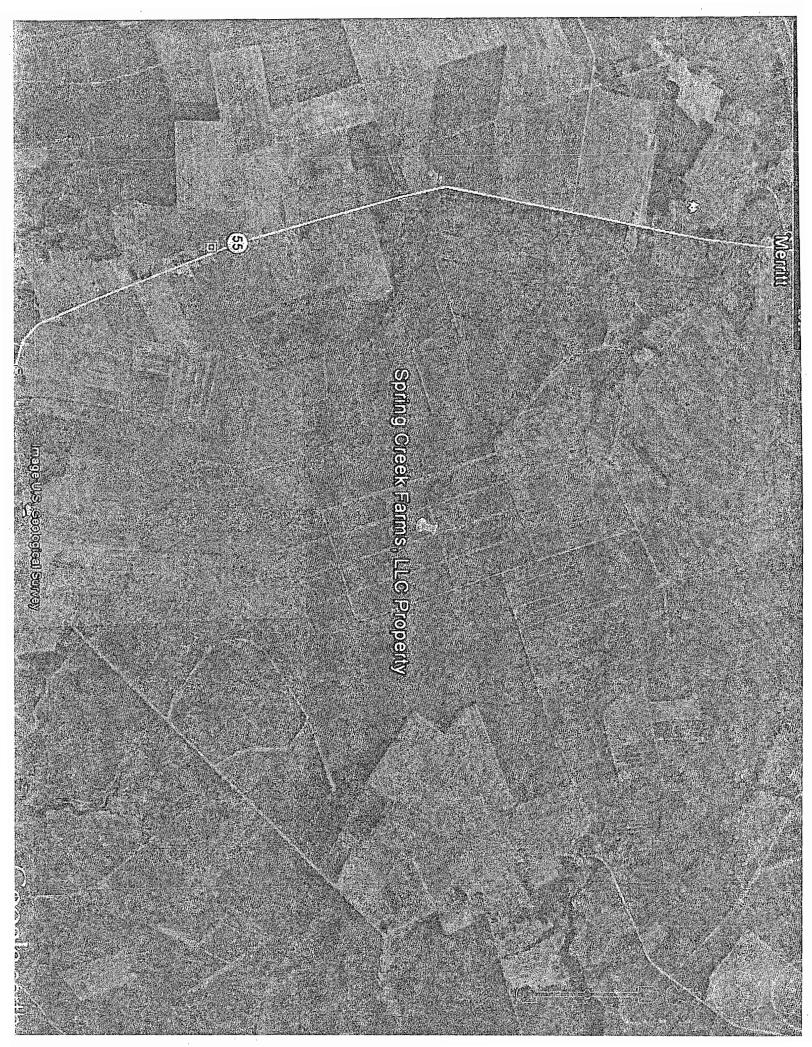


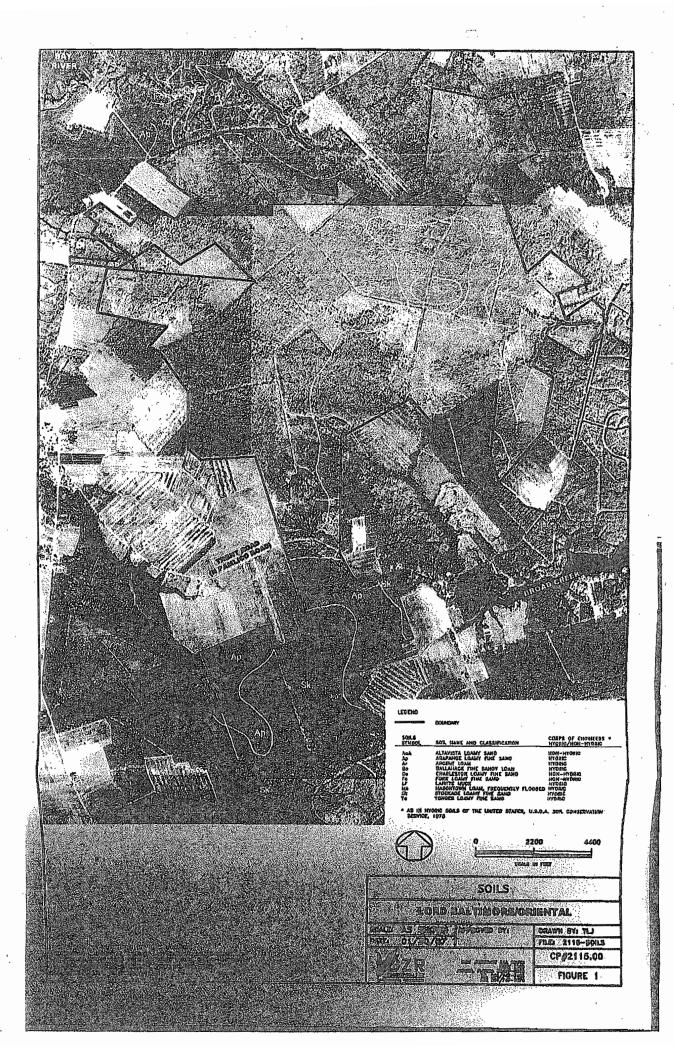
Pamlico Tract
Pamlico County, NC
+/- 4,591 acres









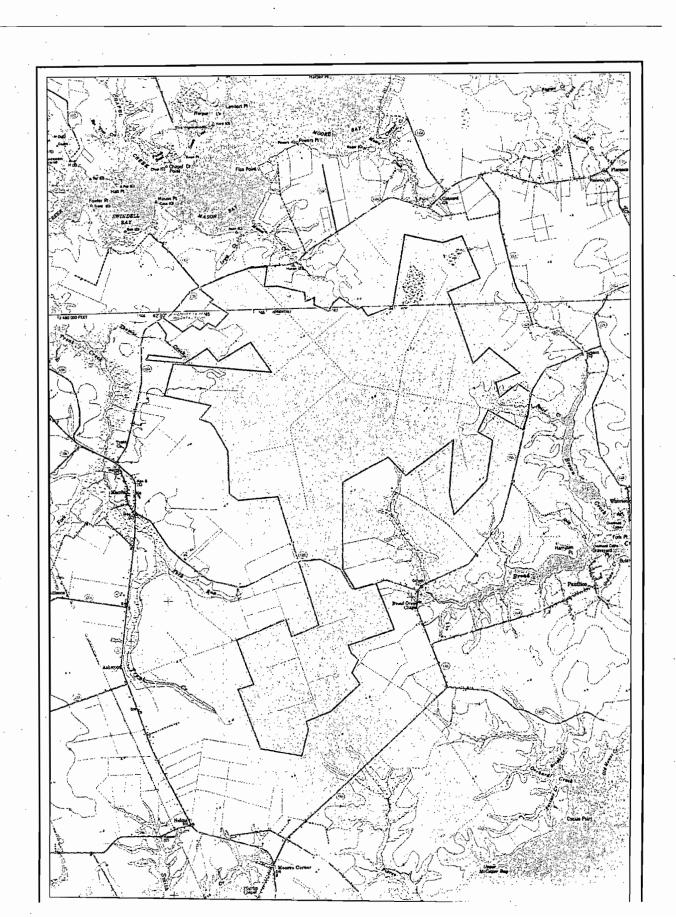


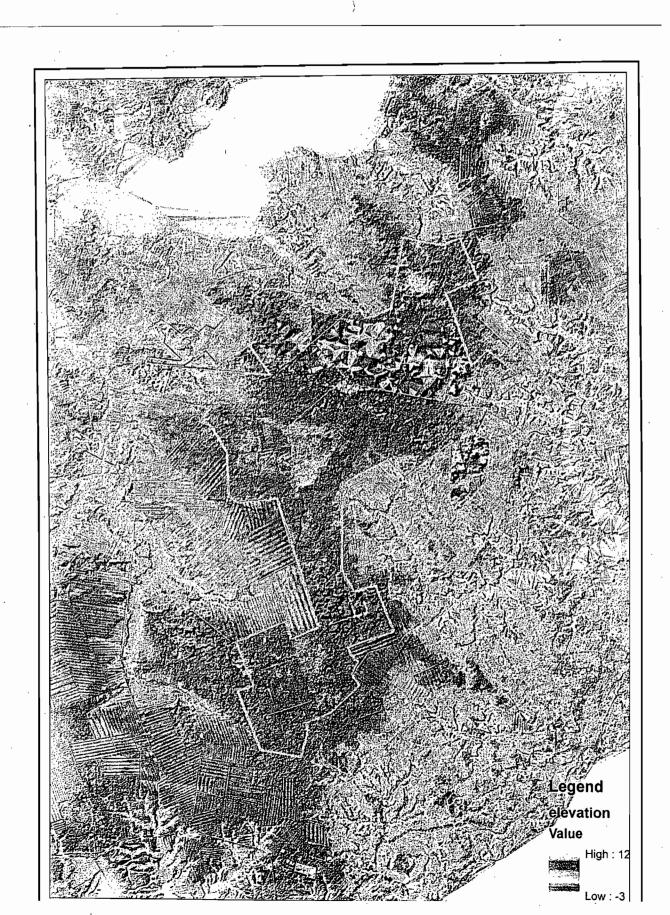
Sample Point A Sample Point C 🧸 Sample Point B Sample Point D Google earth

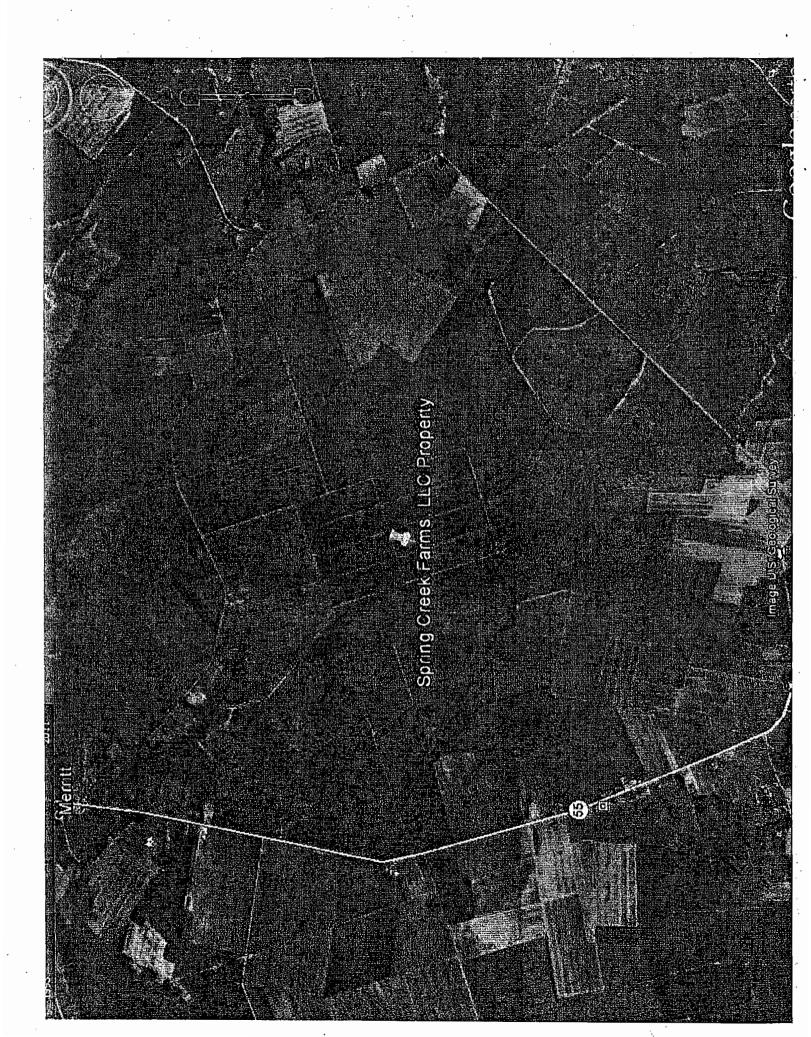
Google Earth Pro

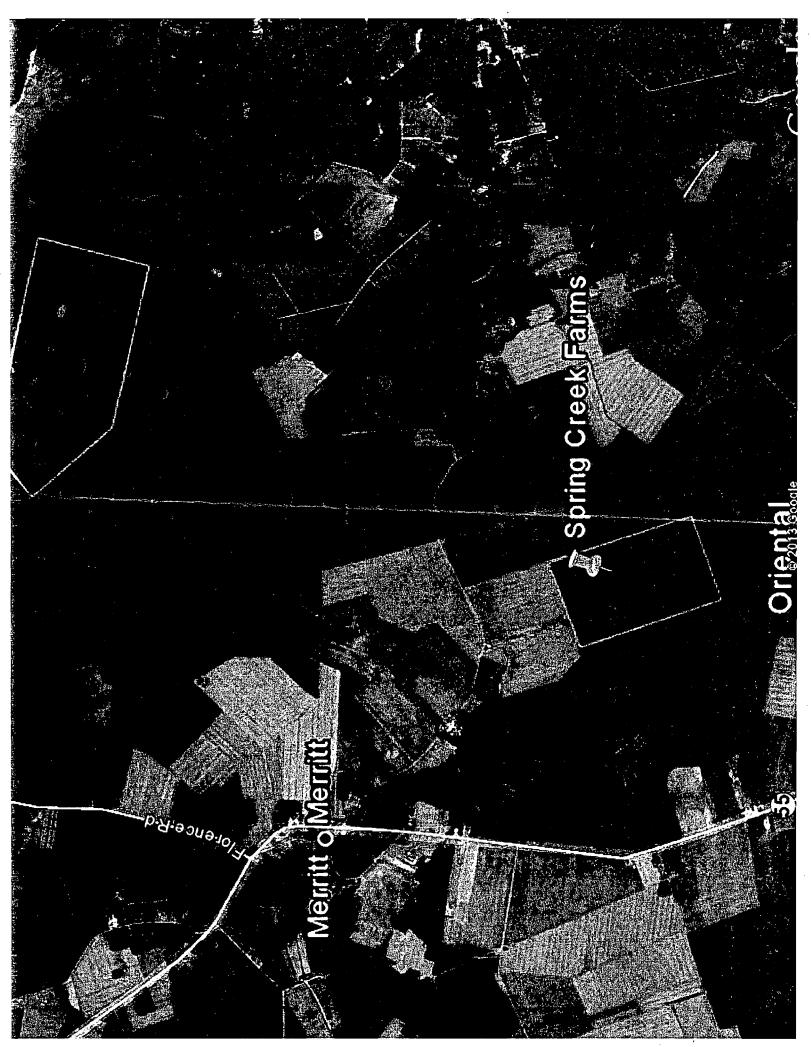






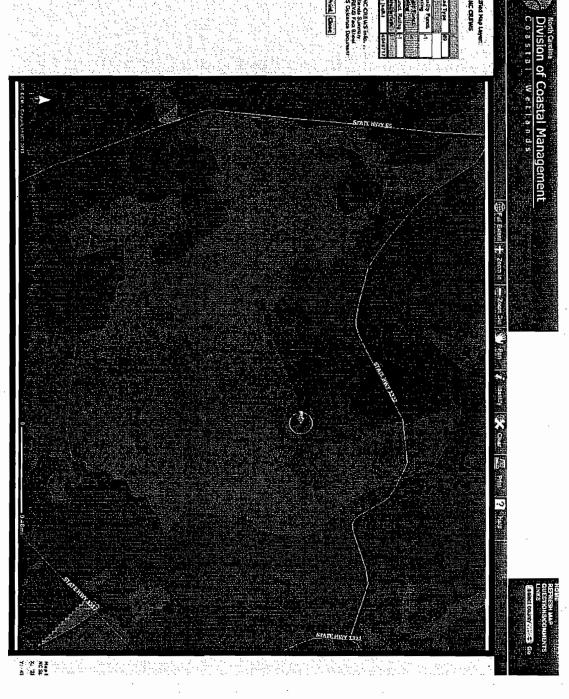


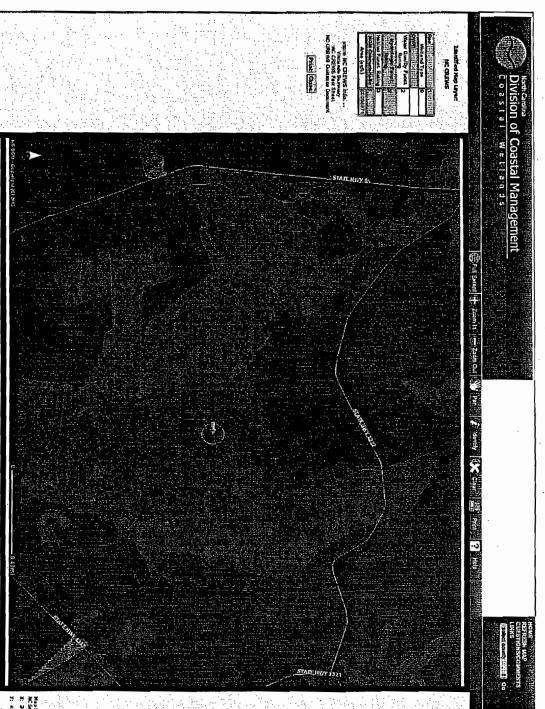




Cutover Wetland (w-type 61-77)

Areas for which satellite imagery indicates a lack of vegetation in 1994. These areas are likely to still be wetlands, however, they have been recently cut over. The vegetation in cutover areas may be regenerating naturally, or the area may in use for silvicultural activities.



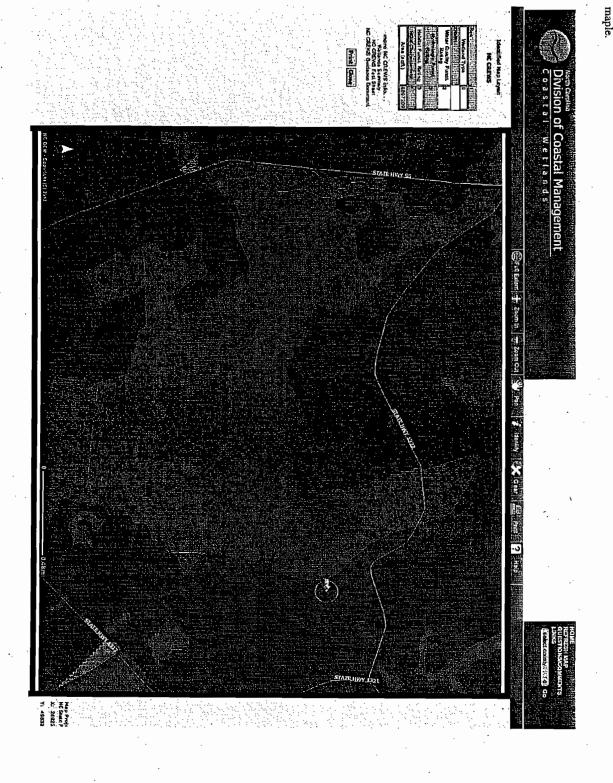


Hardwood Flat (w-type 9)

Poorly drained interstream flats not associated with rivers or estuaries. Seasonally saturated by a high water table or poor drainage. Species vary greatly but often include sweet gum and red maple.

Hardwood Flat (w-type 9)

Poorly drained interstream flats not associated with rivers or estuaries. Seasonally saturated by a high water table or poor drainage. Species vary greatly but often include sweet gum and red



(E) Full Extent | 🕂 Zoom In | 🛶 Zoom Out | 🔊 A Pan | 📝 Hoomus | 🐼 Chonds

Division of Coastal Management



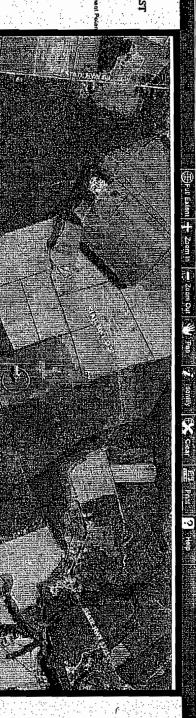
Division of Coastal Management
Coastal wellands

Soil B. I. Sucte see

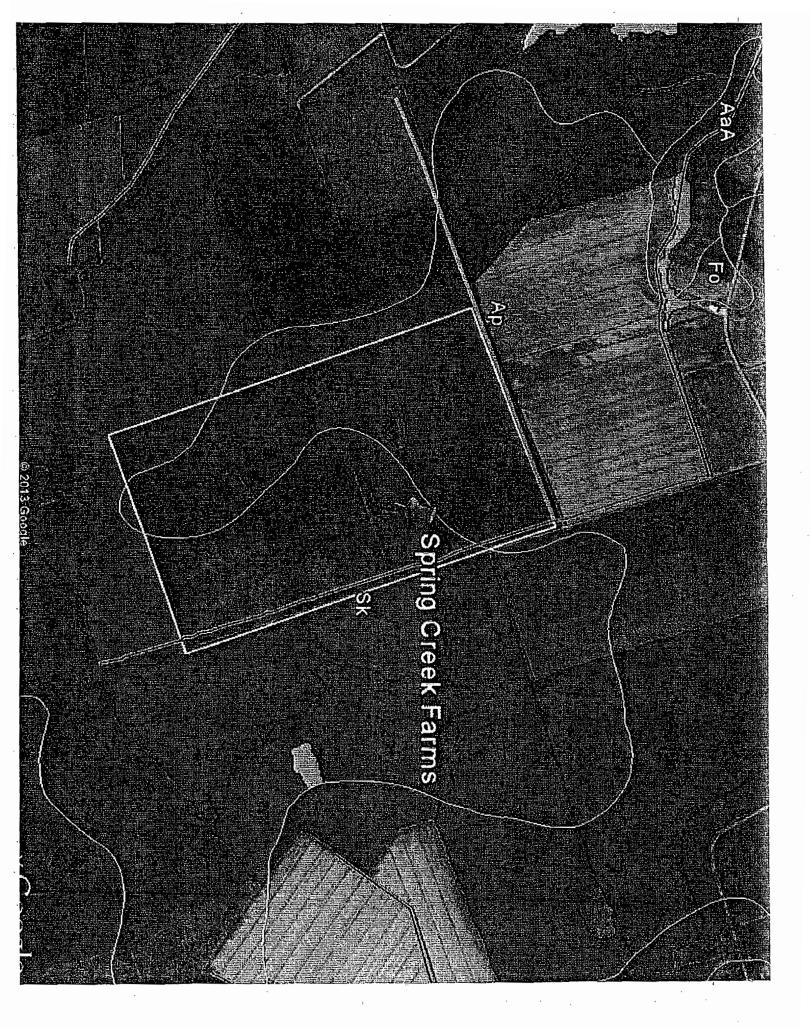
LEGEND & LAYER LIST

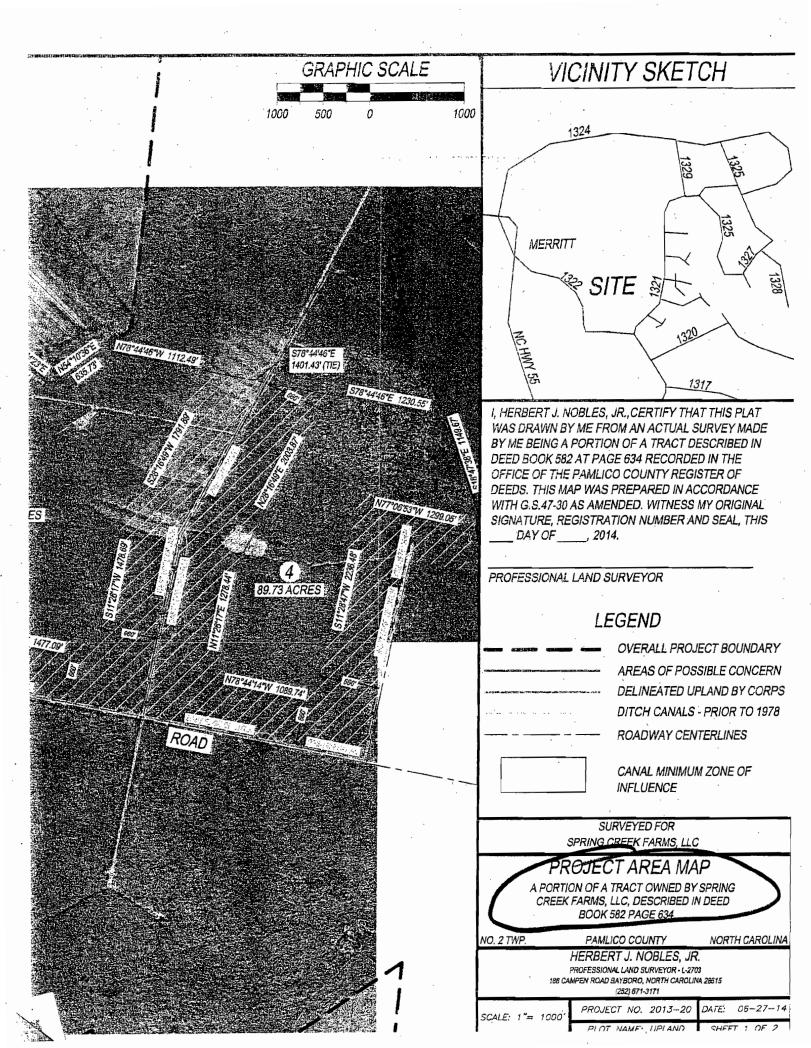
CAmto Refresh Retrost Map

opyright © 2007 ast update: 04/03/2007



Nap Projection iss NC State Rome NAD X: 3682448.54 Y: 4894201.74







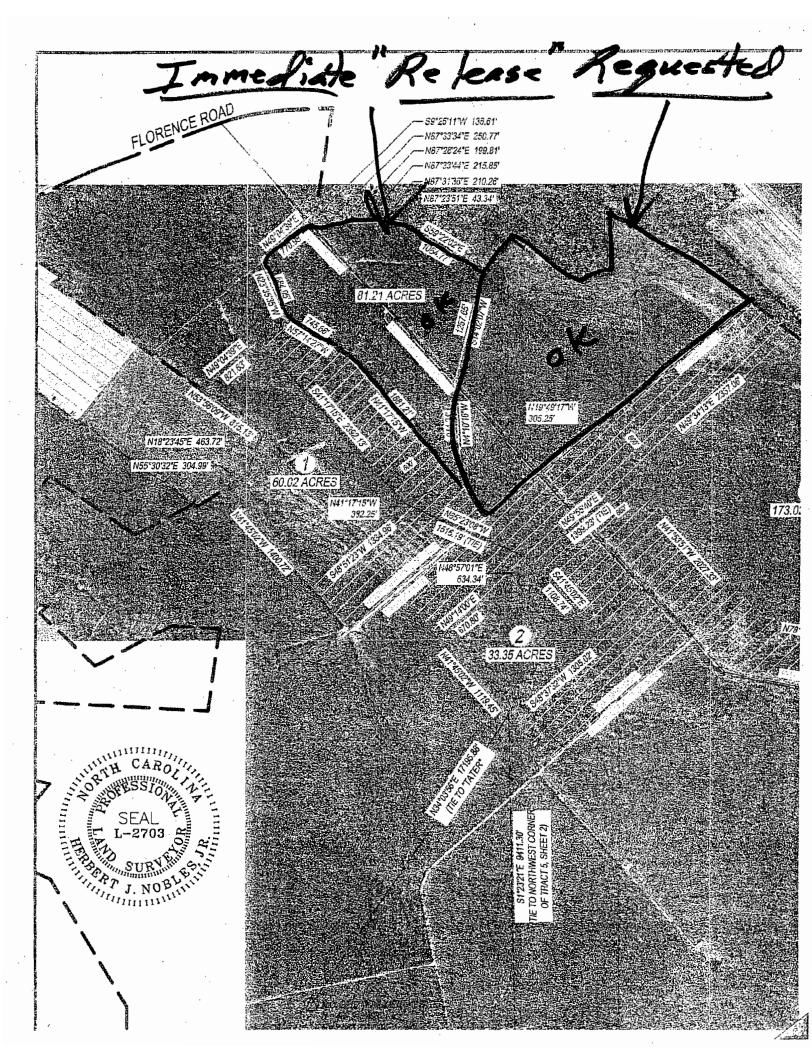
One Inch = 1600 Feet

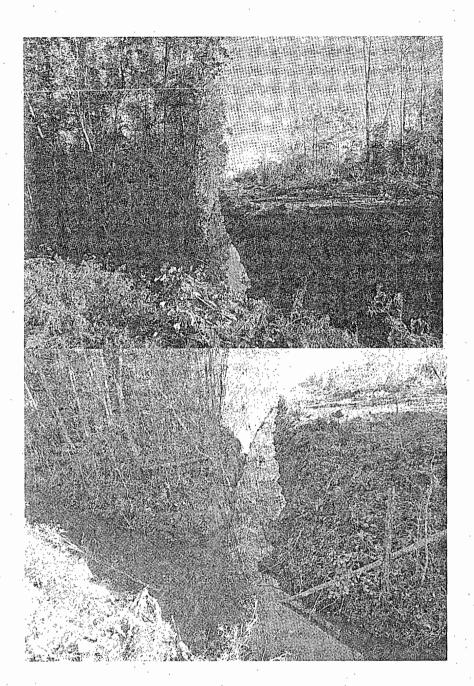
# Pamlico County, NC

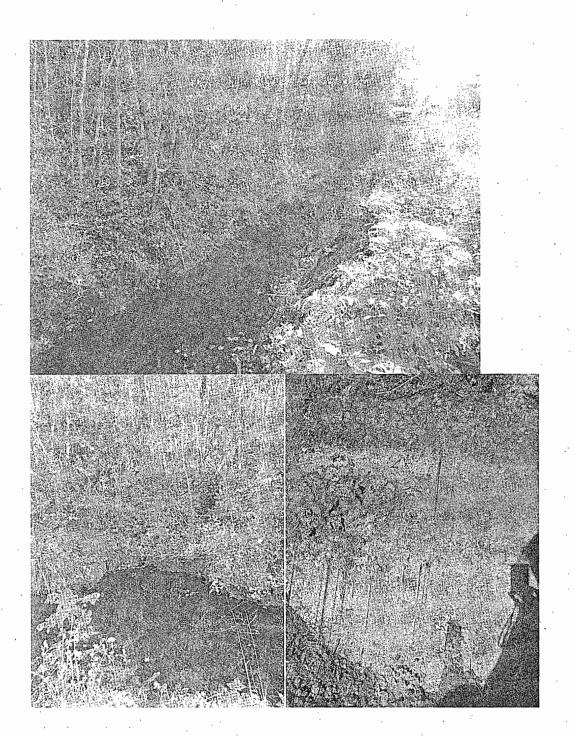


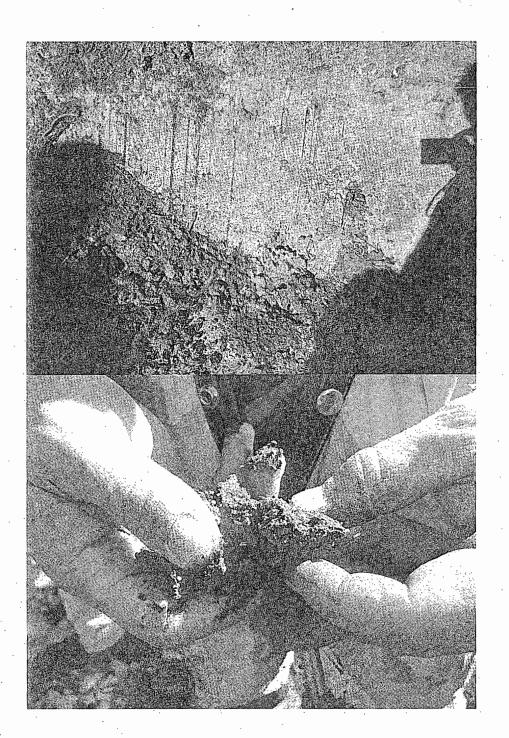
## PROPERTY MAP

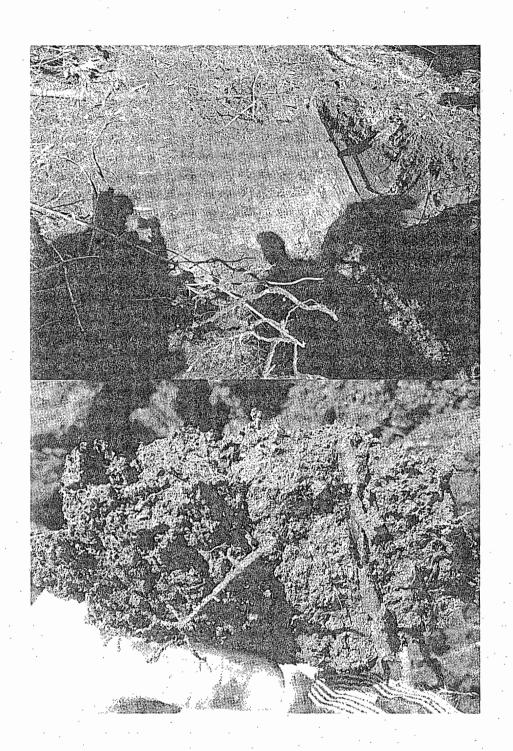
The data provided on this map are prepared for the inventory of real property found within Parnitico County, NO and are compiled from recorded plats, deets, and other public records and data. This data is for informational purposes only and should not be substituted for ture lettle search, property appraisa; survey, or for zoning verification.

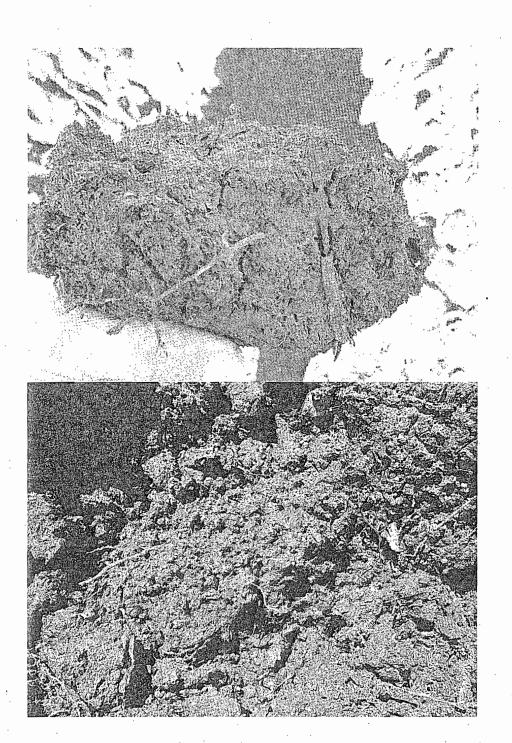


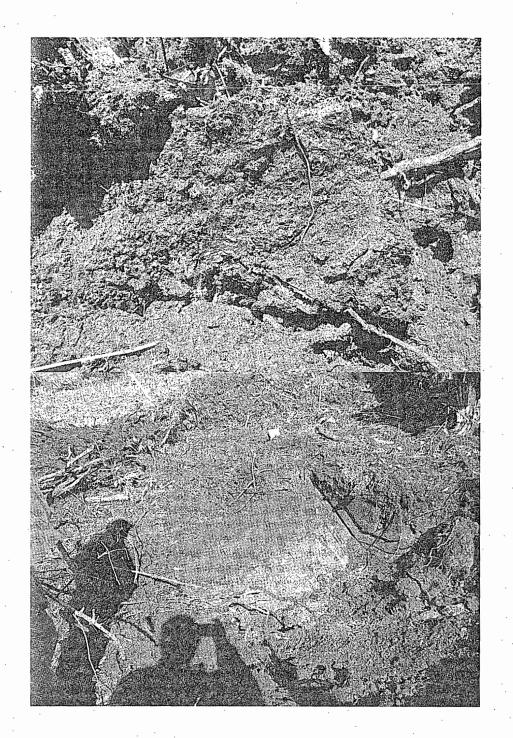


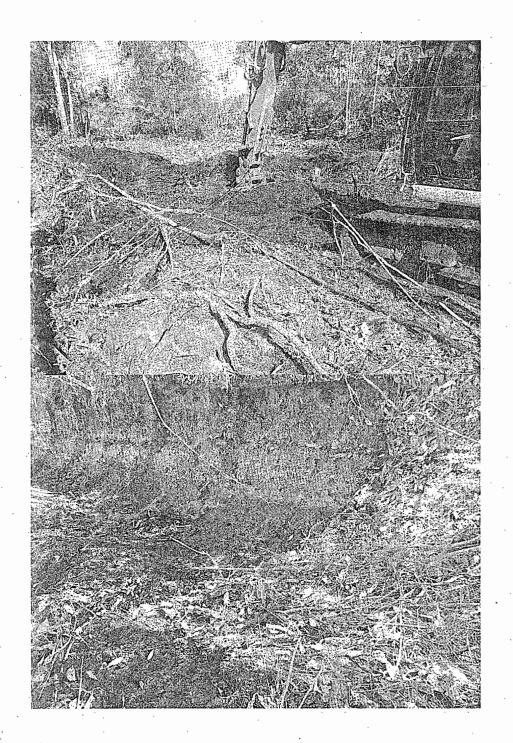


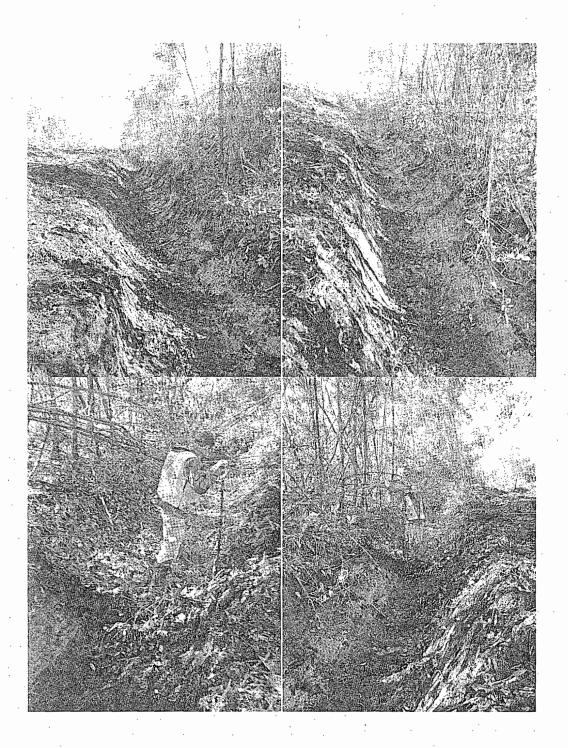


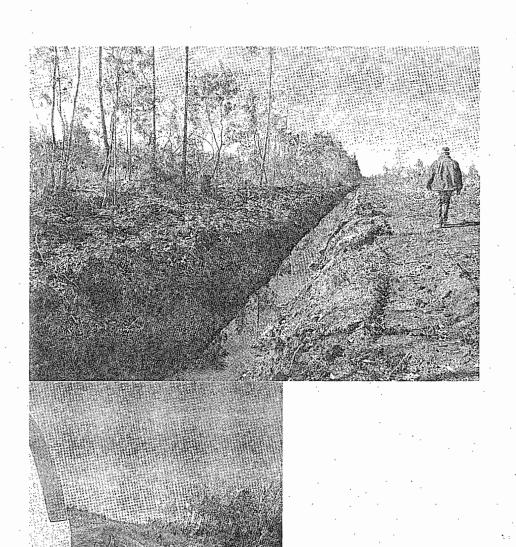


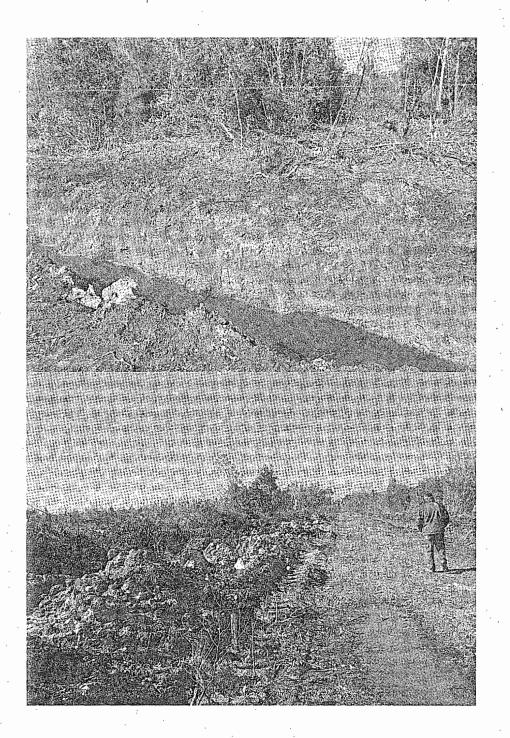


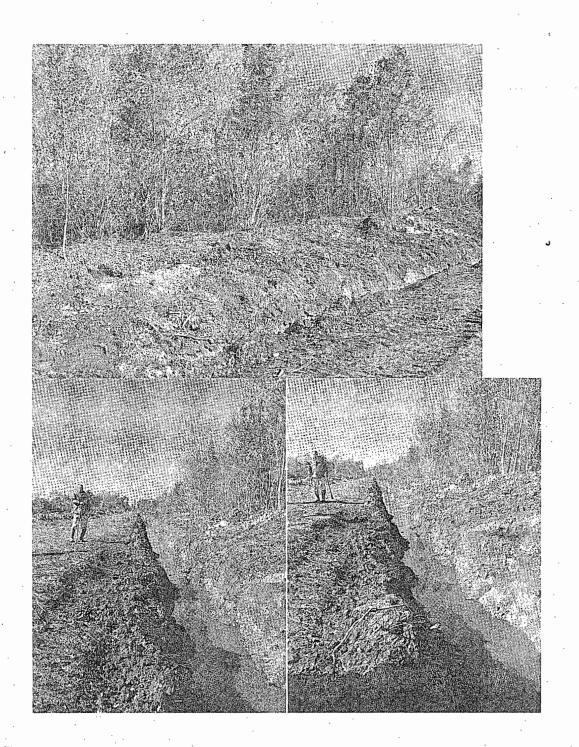












Document ID:		
NON-EXEMPT	PARTIALLY EXEMPT	EXEMPT

August 4, 2013

To Whom It May Concern:

Spring Creek Farms, LLC authorizes Abel Harmon and the Army Corps of Engineers to enter the 4591 acre track located in Pamlico County, North Carolina. Abel Harmon shall act as agent for Spring Creek Farms, LLC.

Mark Beck

Manager

Spring Creek Farms, LLC

Bed 8.4-13

April Harmon 252.916 5602 cell

Document ID:	0013	-
_ <b>✓</b> NON-EXEMPT	PARTIALLY EXEMPT	EXEMPT

December 15, 2013

Emily Greer, Project Manager
US Army Corps of Engineers
2407 West 5<sup>th</sup> Street
Washington, North Carolina 27889

RECEIVED

DEC 1 6 2013

U.S. ARMY CORPS ENG Washington Regulatory Fld Ofc

Dear Ms. Greer,

Please reference our onsite meetings over the last few weeks and the onsite inspections by representatives of the US Environmental Protection Agency, Mike Wiley and Molly Davis, on the Spring Creek Farms tract, located near Merritt, in Pamlico County, North Carolina.

The attached map and Data Shéet is for the upland area that we reviewed with you and EPA and determined that there were no Hydric Soil indicators present. This area consists of 81.21 acres and is shown on the survey prepared by Herbert J. Nobles on 12-13-2013. This area was delineated in accordance with the criteria that we established onsite with EPA and was not affected by the drainage ditches. The area is mapped as a Hydric Soil but there are no indicators present. The area still meets the Vegetation parameter because the dominants are >50% Fac , but there are more FacU plants in this area than anywhere else on the property.

I am still preparing the Data Sheets for the approximate 768 acre area that we have reviewed per the instructions provided by you and your Office Chief, Bill Biddlecome, and plan to submit them to you in the next week or two. It is looking like the majority of the data points will be very similar, so I expect to turn in Data Sheets for those areas where there are soil, topographic, or significant vegetation changes. I have collected data for almost 100 points but will result in only several Data Sheets due to the same soil series and similar vegetation.

Please review the attachments and document our work to move forward with work in this area of no jurisdiction. We need to keep the project moving forward and keep people working on the site. We also look forward to hearing from you soon about the decisions made by EPA on the old drainage ditches on the rest of the land. We are anticipating a positive outcome based on the discussions we had during our meetings and the fact the ditches are so old and involved so many different property owners over the last 25 plus years.

Thanks again for all your help and we look forward to seeing you soon. You can reach me directly at 252-916-5602 if there are any questions.

Sincerely,

Abel Harmon, Agent for Spring Creek Farms, LLC

Project/Site: Spring Creek Farms, LLC City/County: Merritt / Pamlico Sampling Date: Nov 14, 2013
Applicant/Owner: Mark Beck, Manager State: NC Sampling Point: NH 1
Investigator(s): Abel Harmon Section, Township, Range: None
Landform (hillslope, terrace, etc.): Interstream Divide Local relief (concave, convex, none): None Slope (%): 0
Subregion (LRR or MLRA): LRR T Lat: 35 07 38.0562 N Long: -76 41 21.4958 W Datum: NAD 83
Soil Map Unit Name: Ap – Arapahoe loamy fine sand NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No [ ] (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No No
Hydric Soil Present? Yes No Within a Wetland? Yes No
Hydrology Present? Yes \( \Boxed{\omega} \) No \( \Boxed{\omega}
Remarks:
All 3 required wetland parameters are not satisfied per the Corps of Engineers 1987 Manual and the Atlantic and Gulf Coastal Plain Regional Supplement.
HYDROLOGY
A STATE OF THE STA
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Mari Deposits (B15) (LRR U)  Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)
Water Marks (B1)
Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)  Present Iron Reduction in Tilled Sails (C6)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7) ☐ Geomorphic Position (D2)
Iron Deposits (B5)  Other (Explain in Remarks)  Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? Yes No Depth (inches): N/A
Water Table Present? Yes 1 No 1 Depth (inches): >60 Inch Saturation Present? Yes No 1 Depth (inches): >60 Inch Wetland Hydrology Present? Yes No 1
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Aerial photography reveals extensive network of ditches in mid to late 1980s. These ditches included original logging road construction prior to 1970s and subsequent lateral ditch development.
Remarks:
Project area is extensively drained. There is not an extensive network of lateral ditches in this project area.

### VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: NH 1 Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_ 30 ft % Cover Status Species? 1. Pinus taeda 60 Fac Number of Dominant Species That Are OBL, FACW, or FAC: 2. Acer rubrum (A) 20 Fac Quercus alba FacU Total Number of Dominant Species Across All Strata: Quercus stellate FacU Percent of Dominant Species 80 % That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: = Total Cover OBL species 50% of total cover:\_ 20% of total cover: FACW species FAC species x3= Sapling/Shrub Stratum (Plot size: 30 ft 1. Pinus taeda 40 Fac FACU species 2. Acer rubrum 10 Fac UPL species x 5 = 3. Cornus florida 10 FacU Column Totals: (B) 4. Fagus grandifolla FacU 5. Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% = Total Cover .3 - Prevalence Index is ≤3.0¹ 50% of total cover:\_ 20% of total cover: Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Herb Stratum (Plot size: 1 Eupatorium capillifolium 30 FacU 1 Indicators of hydric soil and wetland hydrology must be 2. Phragmites americana 10 FacU present, unless disturbed or problematic. 3. Festuca obtuse 10 FacU Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or larger in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft. (1m) tall. Herb - All herbaceous (non-woody) plants, regardless O. of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines, greater than 3.28 ft. in = Total Cover 50 % height. 50% of total cover:\_ 20% of total cover: Woody Vine Stratum (Plot size: Smilax rotundifolia Fac 2. Toxicodendron radicans Fac Hydrophytic 15 % = Total Cover Vegetation 50% of total cover: 20% of total cover: No ... Present? Remarks: (If observed, list morphological adaptations below). Project area has been clear cut and all woody vegetation removed.

SOIL _								Sampling Po	int: <u>NH 1</u>
Profile Desc	ription: (Describe	to the de	oth needed to doc	ument the indical	or or confirm	the absence of Indi	cators.)		
Depth -	. Matrix .		R	edox Features					
(Inches)	Color (moist)	%	Color (moist)	% Туре	e <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-7	10 YR 5/2	100				Loamy fs			
8-11	10 YR 6/3	100	******			Loamy fs			
	-						/*··	******	<del> </del>
12-24+	5 Y 8/8	100		<del></del>	_`	Sand			
			****	· -			•	-	
									· .
			**						
		,						-	
¹Type: C≕Co	oncentration, D=De	pletion, RM	=Reduced Matrix, (	CS=Covered or Co	ated Sand Gra	ains. <sup>2</sup> Loca	tion: PL=Pore	Lining, M≃Matrix	<b>K.</b>
Hydric Soll in	idicators:					Indicators for Pr	oblematic Hy	dric Solis <sup>3</sup> :	
Histosol (	A1)		Polyvalue B	elow Surface (S8)	(LRR S, T, U)	1 cm Muck (A	9) (LRR O)		
Histic Epi	pedon (A2)		Thin Dark S	Surface (S9) (LRR	S, T, U)	2 cm Muck (A	10) (LRR S)	•	
Black His	tic (A3)		Loamy Muc	ky Minerai (F1) <b>(L</b> l	RR O)	Reduced Verti	ic (F18) (outs	ide MLRA 160A	,B)
<u> </u>	Sulfide (A4)		Loamy Gley	ed Matrix (F2)		Pledmont Floo	odplain Solis (	F19) (LRR P, S,	T)
	Layers (A5)	:	Depleted Ma	• •		=		olls (F20) (MLRA	(153B)
	Bodies (A6) (LRR P			Surface (F6)		Red Parent M			
	cky Mineral (A7) (LF		<u> </u>	ark Surface (F7)		Very Shallow I		(TF12)	
=	sence (A8) (LRR U	1)		ressions (F8)		Other (Explain	in Remarks)		
-	k (A9) (LRR P, T)		Marl (F10) (L	•					
	Below Dark Surfac	θ (A11)		chric (F11) (MLRA					
<del></del>	k Surface (A12)			nese Masses (F12				etation and wetle disturbed or prof	
	airle Redox (A16) (ii		<u> </u>	ace (F13) (LRR P,		muot 55 p.	occin, annous	·	
	ucky Mineral (S1) (I ayed Matrix (S4)	LKK (), S)		C (F17) (MLRA 151	•				
Sandy Re		٠.	_	ortic (F18) (MLRA loodplain Solls (F1		Δ)			
	Matrix (S6)					. 149A, 153C, 153D)			
	ace (S7) (LRR P, S	s. T. UN		bright Louiny Com	(1 ±0) (141±10)	114074 1000, 1000,	٠.		
	ayer (if observed)		. ,			T			
Type:			•						
	-hash					Hudela Call Dragge		Vac 🖂	No 🏻
Depth (In Remarks:	cnes):		<del>_</del>			Hydric Soil Presei		Yes	NO
						ver, the project area i s the field data. There			
sample area.	allallack, Stockade,	vvabua, at	u fonges. The for	iges delles most c	NOSCIY MALLING	s ine neiu uata. There	s al e llo riyuu	C 3011 Indicators	present in ans
There is also	notable tonographi	c relief in th	ils area and fewer o	litches than throug	hout other are	as in the proximity of	the project si	e ·	
There is also	notable topograpin		no dica dila lowelle	inones man moug	mout objet are	ao in ino proximity of			
ļ .						,			
ļ						•		.;	
	•		,						
						•			

Project/Site: Spring Creek Farms, LLC City/County: Memit / Pamilico	Sampling Date: Nov 14, 2013
Applicant/Owner: Mark Beck, Manager State	te: NC Sampling Point: NH 1
Investigator(s): Abel Harmon Section, Township, Range: None	·
Landform (hillslope, terrace, etc.): Interstream Divide Local relief (concave, convex, none	e): None Slope (%): 0
Subregion (LRR or MLRA):         LRR T         Lat: 35 07 38.0562 N         Long: -76 4	41 21.4958 W Datum: NAD 83
Soil Map Unit Name: Ap - Arapahoe loamy fine sand	_ NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No Union, explain	ain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circu	umstances" present? Yes 🛛 No 🔲
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain	in any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations,	• •
Hydrophytic Vegetation Present?  Hydric Soil Present?  Hydrology Present?  Remarks:  All 3 required wetland parameters are not satisfied per the Corps of Engineers 1987 Manual and the Atlantic and	Yes No⊠ d Gulf Coastal Plain Regional Supplement.
HYDROLOGY	
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Aquatic Fauna (B13)  High Water Table (A2)  Mari Deposits (B15) (LRR U)  Saturation (A3)  Hydrogen Sulfide Odor (C1)  Water Marks (B1)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Unundation Visible on Aerial Imagery (B7)	photography reveals extensive network of
Remarks:	
Project area is extensively drained. There is not an extensive network of lateral ditches in this project area.	

VEGETATION (Four Strata) - Use scientif	ic names of	f plants.		Sampling Point: NH 1	
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
- Plaus toods	60	X	Fac	Number of Dominant Species 4	
2. Acer rubrum	20		Fac	That Are OBL, FACW, or FAC: (A	)
3. Quercus alba	5	<del></del>	FacU	Total Number of Dominant 5	
4 Quercus stellate	5		FacU	Species Across All Strata: (B	)
· · · · · · · · · · · · · · · · · · ·			raco	Percent of Dominant Species 80 %	
5				That Are OBL, FACW, or FAC: (A	/B\
6					_,
7				Prevalence index worksheet:	
8			,	Total % Cover of: Multiply by:	
		Total Cover		OBL species x 1 =	
50% of total cover:	20% of tot	al cover:	_	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 30 ft )				FAC species x 3 =	
1. Pinus taeda	40		Fac		
2. Acer rubrum		<del></del>	Fac	FACU species x 4 =	
Corpus florida	10		FacU	UPL speciesx 5 =	
3 Cornus florida 4 Fagus grandifolia	5		FacU	Column Totals: (A)	(B)
			racu		
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophylic Vegetation	
8				2 - Dominance Test is >50%	
·		Total Cover		3 - Prevalence Index is ≤3:01	
50% of total cover:	20% of total	cover:	-	<u> </u>	
Mark Official and Official and Official				Problematic Hydrophytic Vegetation¹ (Explain)	
Herb Stratum (Plot size: 30 ft )  1 Eupatorium capillifolium	30	1521	FacU	•	
	10	<del></del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be	
2. Phragmites americana			FacU	present, unless disturbed or problematic.	
3. Festuca obtuse	10		FacU		
4			'	Definitions of Four Vegetation Strata:	
5				Tree - Woody plants, excluding vines, 3 in. (7.6 cm)	or
6		· []		larger in diameter at breast height (DBH), regardless	of
7.				height.	
7	-	- []		Sapling/Shrub - Woody plants, excluding vines, less	;
8		- H		than 3 in. DBH and greater than 3.28 ft. (1m) tall.	
0.		<del></del>		Harb All barbaneaus (son woods) plants re-carding	_
10		<del>- =</del>		Herb – All herbaceous (non-woody) plants, regardles: of size, and woody plants less than 3.28 ft tall.	3
11				or size, and woody plants loss than 5.25 k tall.	
12				Woody vine - All woody vines, greater than 3.28 ft, in	1
•		Total Cover		height.	
50% of total cover:	20% of total	cover:	• .	,	
			•		
Woody Vine Stratum (Plot size: 30 ft )  1 Smilax rotundifolia	10	1571	, E	•	
	10		Fac		
2. Toxicodendron radicans	5		Fac		
3					
4				•	
5.				Hydrophytic	
		Total Cover		Vegetation	
50% of total cover:	20% of total	cover:		Present?' Yes No No	
Remarks: (If observed, list morphological adaptations belo	w).				-
	/-		. '		
Project area has been clear cut and all woody vegetation r	emoved.				
	,			•	

SUIL						'		-	Sampling Poin	t: <u>NH 1</u>
Profile Desci	ription: (Describe	to the dep	th needed to docu	ment the	indicator o	confirm	the absence of ind	icators.)		
Depth	Matrix		Re	dox Featu	ires					
'		%		%	Type <sup>1</sup>	Loc2	Toylura		Romarka	
(Inches)	10 YR 5/2		Color (moist)	<del>76</del>	Type	LOC-	Texture		Remarks	
8-11	10 YR 6/3	100			<del></del>		Loamy fs.	·		· ·
							Loamy fs			
12-24+	5 Y 8/8	100				<u> </u>	Sand			
	•									
			·		<u> </u>					,
	<del>.</del>						<del></del>			
¹Type: C=Co	ncentration, D=Dep	letion, RM	Reduced Matrix, C	S=Covere	ed or Coated	Sand Gra	Ins. <sup>2</sup> Loca	tion: PL=Pore Li	ning, M=Matrix.	
Hydric Soll In	dicators:				;		indicators for Pr	oblematic Hyde	ic Soils <sup>3</sup> :	
Histosol (	A1)		Polyvalue B	elow Surfa	ce (S8) (LRI	R S, T, U)	1 cm Muck (A	9) (LRR O)		
Histic Epi	pedon (A2)		Thin Dark St	urface (S9	) (LRR S, T,	U)	2 cm Muck (A	10) (LRR S)		
Black Hist	ic (A3)		Loamy Muck	y Mineral	(F1) (LRR 0	)	Reduced Vert	ic (F18) (outsid	e MLRA 150A,B	)
Hydrogen	Sulfide (A4)		Loamy Gley	ed Matrix (	(F2)		Pledmont Floo	odplain Soils (F1	9) (LRR P, S, T)	)
Stratified	Layers (A5)		Depleted Ma	, ,			Anomalous Br	right Loamy Soit	s (F20) (MLRA 1	(53B)
Organic B	odles (A6) (LRR P,	T, U)	Redox Dark	Surface (F	<del>-6</del> )		Red Parent M	aterial (TF2)		
	ky Mineral (A7) (LR		Depleted Da	rk Surface	(F7)		Very Shallow	Dark Surface (T	F12)	
Muck Pre	sence (A8) (LRR U)	)	Redox Depre	essions (F	8)		Other (Explain	in Remarks)		
	k (A9) (LRR P, T)		Marl (F10) (L	RR U)						
<del></del>	Below Dark Surface	(A11)	Depleted Oc	. ,			_			
	k Surface (A12)		Iron-Mangan						ation and wetlan	
	irie Redox (A16) (IV					)	must be pi	escrit, urioss di	sturbed of proble	mano.
Parties of the Partie	cky Mineral (S1) (L	RR O, S)	Delta Ochric						-	
L	eyed Matrix (S4)		Reduced Ve							
Sandy Re			Piedmont Flo	-			• .			
<del></del>	Matrix (S6)	T :::	Anomalous i	angnt Loai	my Solis (F2)	J) (WILKA	149A, 153C, 153D)			
	ace (S7) (LRR P, S ayer (if observed):						,			
	• •									
Туре:									🗂	🔽
Depth (inc	ches):			•			Hydric Soll Prese	nt?	Yes	No <u>X</u>
Remarks:						•				
Project area is inclusions, Ba sample area.	s mapped as Arapa llahack, Stockade,	hoe loamy Wasda, an	fine sand in the Par d Yonges. The Yon	nlico Cour ges Series	nty Soil Surve s most closel	ey. Howev y matches	er, the project area the field data. There	Includes several e are no Hydric	other soil series Soil Indicators pr	as esent in this
				U - la			- I- 11- · · · ·			
There is also	notable topographic	relief in th	s area and fewer d	itches that	n throughout	other area	s in the proximity of	the project site.		
	.*									
									٠.	
								٠.		
,						• .				
										ì
							•			
					•					

Document ID:	W14
NON-EXEMPT	PARTIALLY EXEMPT EXEMPT
ounty: Merritt/Pamilco	Sampling Date: 12/4/13

### WETLAND DETERMINATION DATA FORM

·	
Project/Site: Spring Creek Farms	City/County: Merritt/Pamilco Sampling Date: 12/4/13
Applicant/Owner: Spring Creek Farms, LLC	State: NC Sampling Point: Off 400-acre Site
Investigator(s): M.Wylie,M.Davis,H.Wicker,E. Green	Section, Township, Range:
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): none Slope (%): <1
Subregion (LRR or MLRA): T Lat: 3	35 degrees 7' 10.554" N Long: 76 degrees 41' 3.372" W Datum: NAD 83
Soil Map Unit Name: Ap - Arapahoe loamy fine sand	NWI classification: PFO4A
Are climatic / hydrologic conditions on the site typical for this time	
	cantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology natura	
•	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes X No	io ino compression
Wetland Hydrology Present? Yes No X	within a Wetland? Yes No X
Remarks:	
400-acre Site has been ditched sometime	between 1988 and 1993. Lateral field ditches dug every
660 feet approximately five feet deep by ei	ight feet TOB (pictures 27,28) Lateral ditches were
recently maintained (this year). Ditches in	place for over 25 years.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	
Surface Water (A1) Aquatic Faur	na (B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	s (B15) (LRR U)
<del> </del>	lfide Odor (C1)
<del>     </del>	zospheres along Living Roots (C3) Dry-Season Water Table (C2)
	Reduced Iron (C4)
Algal Mat or Crust (B4)  Thin Muck Si	
	in in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (i	
Water Table Present? Yes No X Depth (i	,
Saturation Present? Yes No X Depth (i (includes capillary fringe)	nches):   Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aeria	photos, previous inspections), if available:
Remarks:	
No saturation found within upper 24 inches	s (picture 29). Consultant Able Harmen stated that the
	nes of rain within the last five days. A light to moderate rain
was falling during our investigation. Data s	, ,
	<u> </u>

~	$\overline{}$		٠	
3	u	ч	L	

Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) 0-2 root mat 2-13 10 YR 2/1 100 mucky loam but dry <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup>Indicators of hydrophytic vegetation and Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Remarks: Picture 30 of soil profile No saturation in pit at 24 inches

Project/Site: Spring Creek Farms, LLC City/County: Merritt / Pamlico Sampling Date: 6/8/13	-
Applicant/Owner: Mark Beck, Manager State: NC Sampling Point: A	_
Investigator(s): Abel Harmon Section, Township, Range:	,
Landform (hillslope, terrace, etc.): Interstream divide Local relief (concave, convex, none): None Slope (%): 0	
Subregion (LRR or MLRA):         LRR T         Lat:         35.076309         Long:         -76.692201         Datum:         NAD 83	3
Soil Map Unit Name: Ap-Arapahoe loamy fine sand NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No Cif no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🖾 No	
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, explain any answers in Remarks.)	etc.
Hydrophylic Vegetation Present? Yes No 🔲	
Hydric Soil Present? Wetland Yes No I Is the Sampled Area within a Wetland? Yes No X	
Hydrology Present? Yes No No Remarks:	
All 3 required wetland parameters are not satisfied per 1987 Manual and Regional Supplement.	
HYDROLOGY	
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       □ Surface Water (A1)       □ Aquatic Fauna (B13)       □ Surface Soil Cracks (B6)         □ Surface Water (A1)       □ Aquatic Fauna (B13)       □ Drainage Patterns (B10)         □ High Water Table (A2)       □ Mart Deposits (B15) (LRR U)       □ Drainage Patterns (B10)         □ Saturation (A3)       □ Hydrogen Sulfide Odor (C1)       □ Moss Trim Lines (B16)         □ Water Marks (B1)       □ Oxidized Rhizospheres on Living Roots (C3)       □ Dry-Season Water Table (C2)         □ Sediment Deposits (B2)       □ Presence of Reduced fron (C4)       □ Crayfish Burrows (C8)         □ Drift Deposits (B3)       □ Recent Iron Reduction in Tilled Solls (C6)       □ Saturation Visible on Aerial Imagery (C9)         □ Iron Deposits (B6)       □ Other (Explain in Remarks)       □ Shallow Aquitard (D3)         □ Inundation Visible on Aerial Imagery (B7)       □ Sphagnum moss (D8) (LRR T, U)         Field Observations:       Surface Water Present? Yes □ No □ Depth (inches): N/A         Water Table Present? Yes □ No □ Depth (inches): > 48 in.       Saturation Present? Yes □ No □ Depth (inches): > 48 in.         Saturation Present? Yes □ No □ Depth (inches): > 48 in.       Wetland Hydrology Present? Yes □ No □ No □ Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), i	
Remarks:	
Project area is extensively drained.	

VEGETATION (Four Strata) - Use scientific	c names of	plants.		Sampling Point: A
· * * * * * * * * * * * * * * * * * * *	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft. )	% Cover	Species?	Status	Sommands fost workshoet
1. Pinus taeda	60		Fac	Number of Dominant Species
Liquidambar styraciflua	15		Fac	That Are OBL, FACW, or FAC:7 (A)
3. Liriodendron tulipifera	5	—— <del>                                     </del>	Fac	Total Number of Dominant 7
				Species Across All Strata: (B)
4				
5				Percent of Dominant Species 100 That Are OBL, FACW, or FAC: (A/B)
6				matrio obe, i rov, of roo. (vo)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
<u> </u>	80 % =	Total Cover		OBL species x1=
50% of total cover:		al cover:	_	FACW species x 2 =
				FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 ft. )	20	1571	Eas.	
1. Acer rubrum	20 .	<u>\</u>	Fac	FACU species x 4 =
2. Plnus taeda	10		Fac	UPL species x 5 =
3. Ilex opaça	5		Fac	Column Totals: (A) (B)
4. Liquidambar styracifula	5		Fac	Column rotals. (A)
5. Persea palustris	5		FacW	Prevalence Index = B/A =
·		<del></del>		Hydrophytic Vegetation Indicators:
6	<del></del>		`,	1 - Rapid Test for Hydrophytic Vegetation
7			<u>',                                      </u>	
8				2 - Dominance Test Is >50%
		Total Cover		3 - Prevalence index is ≤3.01
50% of total cover:	20% of total	cover:		Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30 ft. )				Problematic Hydrophytic Vegetation (Explain)
1 Woodwardia areolata	2	127	Obl	
"	2		-	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2		<del></del>		present, unless disturbed or problematic.
3				
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6.				larger in diameter at breast height (DBH), regardless of
		一一一		height.
7		<del>-  </del>		Sapling/Shrub - Woody plants, excluding vines, less
0				than 3 in. DBH and greater than 3.28 ft. (1m) tall.
9				
10				Herb - All herbaceous (non-woody) plants, regardless
11			· <u> </u>	of size, and woody plants less than 3.28 ft tall.
12				Woody vine - All woody vines, greater than 3.28 ft. in
	2 % =	Total Cover		height.
50% of total cover:	20% of total	cover:	_	
Woody Vine Stratum (Plot size: 30 ft. )				
1 Gelsemium semipervirens	15	[57]	Fac	•
2 Smilax rotundifolia	10		Fac	
2. Vitas rotundifolia	10	<del></del>	Fac	
3, viids fotundiiolia	10	<u></u>	Fac	. •
4				
5	·	· <u> </u>		Hydrophytic
		Total Cover		Vegetation
50% of total cover:	20% of total	cover:		Present? Yes No No
Remarks: (If observed, list morphological adaptations below	w).			
Transmitter (in observed) not interpreteduction disconnection of the property	,.			
Project area is in various stages of cut over activities.				
·				
		١		. •

SUIL			<u> </u>						Sampling Po	oint: _A
Profile Desc	ription: (Describe	to the de	pth needed to do	cument the	e indicator o	r confirm	the absence of Indi	icators.)		
Depth	Matrix		F	Redox Feat	lures					
(inches)	Color (maist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture		Remarks	
0-11	10 YR 2/1	100					Loamy sand			
11-17	10 YR 2/2	100					Loamy sand			
17-21	10 YR 4/1	95	10 YR 5/2	5	C	171	Sand			
21-30 +	10 YR 6/1	85	10 YR 4/4	10	C	M	Sand			×
				5		M				
		<del></del> ,								
1Tunos CarCo	ancontroller DeDo	lotton Dh	-Dadusad Matrix				21 000	Uarra Di a Dani		
	oncentration, D=Dep	nellon, Riv	-Reduced Mairix,	CO=Cover	ed of Coated	Sand Gra			Lining, M=Matri	K
Hydric Soll is			П.,.,			:	Indicators for Pro		ydric Soils³:	
Histosol (					асе (S8) (LR					
	ipedon (A2)				9) (LRR S, T,		2 cm Muck (A			
Black His	n Sulfide (A4)		Loamy Muc		l (F1) (LRR C	"	_		side MLRA 150A	-
_ ` `	Layers (A5)		Depleted M	•	(1 2)				(F19) <b>(LRR P, S,</b> Golls (F20) <b>(MLR</b> A	
_	Bodies (A6) (LRR P,	T. U)	Redox Dari		F6)	`	Red Parent Ma		ons (1 20) (MEIN	1000)
	ky Mineral (A7) (LF	-			•		Very Shallow I		(TF12)	
_	sence (A8) (LRR U		Redox Dep	ressions (F	F8)		Other (Explain		, , ,	ı*.
1 cm Muc	ck (A9) (LRR P, T)		Marl (F10) (	LRR U)				·		
Depleted	Below Dark Surface	(A11)	Depleted C	chric (F11)	(MLRA 151	)	•			
Thick Dar	rk Surface (A12)		Iron-Manga	inese Mass	ses (F12 <b>) (L</b> F	RR O, P, T		drophytic ve	getation and wetta	and hydrology
	airie Redox (A16) (N		A) 📙 Umbric Sur	face (F13)	(LRR P, T, t	j)	must be pr	esent, uniess	disturbed or pro	olematic.
·	ucky Mineral (S1) (L	.RR (), S)	Delta Ochri	٠, ٠,	• .					
_	eyed Matrix (S4)				(MLRA 150A					
Sandy Re					Solls (F19) (N					
-	Matrix (S6) face (S7) (LRR P, S	T 10	Anomaious	Bugut ros	imy Soils (F2	U) (WILKA	149A, 163C, 153D)			
	ayer (if observed):		i		_		T		<del></del>	
Туре:										
Depth (in	chae):	_					Hudria Sail Dranar		Yes 🔲	No
Remarks:	Ciles)					<del>-</del> ·	Hydric Soll Preser	<u>нг</u>	162	NO
		_	_ :							
Soil matches	soil profile in Pamile	co County	Soil Survey.							
							,	:		
	•			•			. •			
•										
,							-			
								•		
	·.									

Project/Site: Spring Creek Farms, LLC City/County: Merritt / Pamilico Sampling Date: 6/8/13	
Applicant/Owner: Mark Beck, Manager State: NC Sampling Point: B	
Investigator(s): Abel Harmon Section, Township, Range:	
Landform (hillslope, terrace, etc.): Interstream divide Local relief (concave, convex, none): None Slope (%): 0	
Subregion (LRR or MLRA): <u>LRR T</u> <u>Lat: 35.070464</u> <u>Long: -76.692009</u> <u>Datum: NAD 8</u>	3
Soil Map Unit Name: Ap-Arapahoe loamy fine sandNWI classification;	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🗵 No 🔲 (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No	
Are Vegetation . Soil ., or Hydrology . naturally problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features,	etc.
Hydrophytic Vegetation Present?  Yes No I is the Sampled Area within a Wetland?  Yes No I is the Sampled Area within a Wetland?  Yes No I is the Sampled Area within a Wetland?  Yes No I	
Remarks:	
All 3 required wetland parameters are not satisfied per 1987 Manual and Regional Supplement.	
IYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)	
☐ Surface Water (A1) ☐ Aquatic Fauna (B13) ☐ Sparsely Vegetated Concave Surface (B8)	
High Water Table (A2)  Marl Deposits (B15) (LRR U)  Drainage Patterns (B10)	
Saturation (A3)   Hydrogen Sulfide Odor (C1)   Moss Trim Lines (B16)	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Dry-Season Water Table (C2)	
Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)	
Drift Deposits (B3)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)  Thin Muck Surface (C7)  Geomorphic Position (D2)  Class (Cyclete to Remarks)	
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) ☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7) ☐ FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) ☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:	
Surface Water Present? Yes No Depth (inches): N/A	
Water Table Present? Yes No Depth (inches): _>48 in.	
Saturation Present? Yes No Depth (inches): >48in. Wetland Hydrology Present? Yes No (includes capillary fringe)	1
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
·	
Remarks:	
Project area is extensively drained.	

VEGETATION (Four Strata) - Use scientif	ic names of	f plants.		Sampling Point: B
Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	
1. Pinus taeda	60	$\boxtimes$	Fac	Number of Dominant Species
Liquidambar styraciflua	15		Fac	That Are OBL, FACW, or FAC:6(A)
3. Liriodendron tulipifera	5		Fac	Total Number of Dominant . 6
4. Acer rubrum	5		Fac	Species Across All Strata: (B)
5.				Percent of Dominant Species 100
5 6		一青		That Are OBL, FACW, or FAC: (A/B)
7				Prevalence Index worksheet:
7		一一一		Total % Cover of: Multiply by:
8.	85 % =	Total Cover		OBL species x1=
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 ft. )  1 Acer rubrum	20	· 🖂	Fac	FAC species x 3 =
2. Pinus taeda	10	<del> </del>		FACU species x 4 =
		<u>——</u>	Fac	UPL species x 5 =
3. Ilex opaca	5 .		Fac	Column Totals: (A) (B)
4. Liquidambar styracifula	5		Fac	
5. Morella cerifera	5		Fac	Prevalence Index = B/A =
6. Magnolia virginiana	5		FacW	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophylic Vegetation
8				2 - Dominance Test is >50%
` <b></b>		Total Cover		3 - Prevalence Index is ≤3.01
50% of total cover:	20% of total	cover:	-	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30 ft. )				
1. Woodwardia areolata	10 .	$\boxtimes$	ОЫ	Indicators of hydric soil and wetland hydrology must be
2		一门	-	present, unless disturbed or problematic.
2		<del>-        </del>		Francisco de Propinsione
3				Definitions of Four Vegetation Strata:
<b>4</b> ,		<del></del>		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
				larger in diameter at breast height (DBH), regardless of
6				height.
		一一		Sapling/Shrub - Woody plants, excluding vines, less
8		<del> </del>		than 3 in, DBH and greater than 3.28 ft. (1m) tall.
9	•	<del></del>		Herb – All herbaceous (non-woody) plants, regardless
10 11				of size, and woody plants less than 3.28 ft tall.
		<del></del>		
12	10 % =	Total Cover		Woody vine – All woody vines, greater than 3.28 ft. in height.
50% of total cover:	20% of total			neight,
Woody Vine Stratum (Plot size: 30 ft. )				
1 Gelsemlum semipervirens	15	X	Fac	· , ,
2. Smilax rotundifolia	10	$\overline{\boxtimes}$	Fac	
3.				٠.
4				, , ,
5	<del></del> .		-	
U	25 % ==	Total Cover		Hydrophytic Vegetation
50% of total cover:	20% of tolal			Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			
Project area is in various stages of cut over activities.		· .		
•				

SOIL			•						Sampling Poir	ıt: <u>B</u>
Profile Des	cription: (Describe	e to the de	pth needed to do	ument the	indicator o	r confirm	the absence of Ind	licators.)		
Depth	Matrix		· Ŗ	ledox Featu	res					
(Inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	·
0-11	10 YR 2/1	100					Loamy sand			
11-17	10 YR 2/2	100			,		Loamy sand			
17-21	10 YR 4/1	95	10 YR 5/2	6	C	N.	Sand			
21-30 +	10 YR 6/1	85	10 YR 4/4	10	C	RA	Sand			
				5	D	M				
									·	· · _
¹Type: C=C	oncentration, D=De	pletion, RN	I=Reduced Matrix,	CS=Covere	ed or Coated	Sand Gra	alns. <sup>2</sup> Loca	ation: PL=Pore	Lining, M≕Matrix.	
Hydric Soll I	indicators:						Indicators for Pr	roblematic Hyd	iric Solls³:	
Histosol					ce (S8) (LR					
	oipedon (A2)		P		) (LRR S, T,		2 cm Muck (A			٠.
Black Hi	• •		P		(F1) (LRR C	<b>)</b> ) .			de MLRA 150A,B	-
	n Sulfide (A4)		Loamy Gle		(F2)				19) (LRR P, S, T	•
_	d Layers (A5)		Depleted M		-0.				ils (F20) (MILRA 1	(53B)
= ·	Bodies (A6) (LRR P		Redox Dark	•			Red Parent M		TE40)	•
	icky Mineral (A7) (L							Dark Surface (	TF12)	
	esence (A8) (LRR L	)}		ressions (F	8}		Other (Explain	ı ın Remarks)	•	
	ick (A9) <b>(LRR P, T)</b> d Below Dark Surfac	۱۵ (۸11)	Mari (F10) (		(MLRA 151					
= '	ark Surface (A12)	,e (A11)	<del>=</del>	, ,	es (F12) (LF	•	3 Indicators of h	vdronhytic voge	etation and wetlan	d bydeology
	rairie Redox (A18) (I	881 RA 150			(LRR P, T, L				disturbed or proble	
	łucky Mineral (S1) (		Deita Ochri			-,				
	Bleyed Matrix (S4)				MLRA 150	A, 160B)				
	Redox (S5)				oils (F19) (N	-	A) .			
	Matrix (S6)						149A, 153C, 153D)	)		
	rface (S7) (LRR P, S									
Restrictive	Layer (if observed)	):								
Type:	<u> </u>									
Depth (in	nches):						Hydric Soil Prese	ent?	Yes	No
Remarks:										
Soil matches	s soil profile in Paml	ico County	Soil Survey.							
							•			
						٠.			*	
·										
								r		
								. · ·		
							·			
									• :	

Project/Site: Spring Creek Farms, LLC	Clty/County: Merritt / Pam	lico Sampling Date: 6/8/13
Applicant/Owner: Mark Beck, Manager		State: NC Sampling Point: C
Investigator(s): Abel Harmon	Section, Township, Ran	ge:
Landform (hillslope, terrace, etc.): Interstream divide	Local relief (concave, con	vex, none): None Slope (%): 0
Subregion (LRR/or MLRA): LRR T	Lat: 35.072671 Lo	ong: <u>-76.688340</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Sk-Stockade loamy fine sand	<u> </u>	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	ne of year? Yes <u> </u>	f no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology s	Ignificantly disturbed? Are "No	rmal Circumstances" present? Yes 🛛 No 🗌
Are Vegetation, Soil, or Hydrology n	aturally problematic? (If need	ed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampling point loc	ations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soll Present? Wetland  Hydrology Present?  Yes   Y	No Is the Sampled Are within a Wetland?	a Yes No 🔀
Remarks:		·
All 3 required wetland parameters are not satisfied per 1987 Ma	anual and Regional Supplement.	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No De  Saturation Present?  Yes Do No De	Fauna (B13)  posits (B15) (LRR U)  an Sulfide Odor (C1)  d Rhizospheres on Living Roots (C3)  are of Reduced Iron (C4)  Iron Reduction in Tilled Soils (C6)  ack Surface (C7)  Explain in Remarks)  pth (inches): N/A  pth (inches): >60 in.	Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patiems (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Sphagnum moss (D8) (LRR T, U)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if availal	ole:
Remarks:		
Project area is extensively drained.		
		·
	•	
		·
·		

SOIL									Sampl	ing Poir	t: <u>C</u>	
Profile Desc	cription: (Describe	to the de	pth needed to doc	ument the	indicator o	r confirm	the absence of indica	itors.)				
Depth	Matrix		R	ledox Feati	ures				,			
(inches)	Color (moist)	%	Cólor (moist)	%	Type¹	Loc2	Texture		Rema	rks .		
0-10	10 YR 2/1	100					Loamy sand					
10-19	10 YR 3/2	100					Loamy sand					
19-26	10 YR 6/2	90	10 YR 6/6	10	C	PAI	Sandy clay					
26-41	10 YR 6/1	80	10 YR 6/6	10	D	M	Sandy clay					
				10	D	M	,		· · · · · · · · · · · · · · · ·			
¹Type: C=C	oncentration, D=De	pletion, RM	I=Reduced Matrix,	CS=Covere	ed or Coated	Sand Gra	alns. <sup>2</sup> Locatio	n: PL=Pore L	ining, M	=Matrix.		
Hydric Soil i	ndicators:						Indicators for Prob	lematic Hyd	ric Solls	3.		
Histosol			Polyvalue E	Below Surfa	ce (S8) (LR	R S, T, U)		•				
Histic Ep	ipedon (A2)		☐ Thin Dark S	Surface (S9	) (LRR S, T,	U)	2 cm Muck (A10	(LRR S)				
Black His	stic (A3)		Loamy Muc	ky Mineral	(F1) (LRR C	<b>)</b>	Reduced Vertic	(F18) (outsid	e NILRA	150A,B	3)	
Hydroge	n Sulfide (A4)		Loamy Gley	yed Matrix (	(F2)		Piedmont Flood	olain Soils (F	19) (LRR	P, S, T	)	
Stratified	Layers (A5)		Depleted M	latrix (F3)			Anomalous Brigi	nt Loamy Soil	is (F20) (	MLRA 1	53B)	
	Bodies (A6) (LRR P		Redox Dari		•		Red Parent Mate					
<del></del>	cky Mineral (A7) (Li		<del></del>				Very Shallow Da	•	F12)			
<del></del>	esence (A8) (LRR U	I)	Redox Dep	•	8)		Other (Explain in	Remarks)			,	
	ck (A9) (LRR P, T)	~ (A11)	Mari (F10) (		(841 DA 454							
	l Below Dark Surfac irk Surface (A12)	8 (A11)			(MLRA 151 es (F12) (Lf	•	) <sup>3</sup> Indicators of hydi	anhuila vaaa	tallan an	مملئمين لم	d buden	La àss
<del></del>	alrie Redox (A16) (I	MLRA 150			(LRR P, T, L		must be pres					logy
	ucky Mineral (S1) (I					-,						
	leyed Matrix (S4)		,	,	MLRA 150	A, 150B)						
	edox (S5)		Piedmont F	loodplain S	Soils (F19) (R	ALRA 149	A) .					
Stripped	Matrix (S6)		Anomalous	Bright Loai	my Soils (F2	(MLRA	149A, 153C, 163D)		,			
	face (S7) (LRR P, S		· · · · · · · · · · · · · · · · · · ·		· ·				· .			
Restrictive	Layer (if observed)	):										
Туре:					٠.							
Depth (ir	nches):		<del>_</del>			<u> </u>	Hydric Soll Present	·	Yes _		No_	
Remarks:												
Soil matches	s soil profile in Pamil	co County	Soil Survey.									
				•								
								:			•	
							,*					
										•		

Project/Site: Spring Creek Farms, LLC	City/County: Merritt /	Pamlico Sampling Date: 6/8/13
Applicant/Owner: Mark Beck, Manager		State: NC Sampling Point: D
Investigator(s): Abel Harmon	Section, Township	Range:
Landform (hillslope, terrace, etc.): Interstream divide	Local relief (concave	o, convex, none): None Slope (%): 0
Subregion (LRR or MLRA): LRR T	Lat: 35.070070	Long: _76.685204
Soil Map Unit Name: Sk-Stockade loamy fine sand	,	NWI classification:
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes 🛛 No	(If no. explain in Remarks.)
Are Vegetation, Soil, or Hydrology		e "Normal Circumstances" present? Yes 🛛 No 🗌
		needed, explain any answers in Remarks.) locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes  Hydric Soil Present? Wetland Yes  Hydrology Present? Yes	No I Is the Sampled within a Wetla	
Remarks:  All 3 required wetland parameters are not satisfied per 1	1987 Manual and Regional Supplement.	
HYDROLOGY		
High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No	Aquatic Fauna (B13) Mari Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solis (C6) Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches): N/A	Secondary indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Sphagnum moss (D8) (LRR T, U)
Water Table Present?  Saturation Present?  (includes capillary fringe)	7	etland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well	I, aerial photos, previous inspections), if a	vallable:
Remarks:  Project area is extensively drained.	``````````````````````````````````````	

VEGETATION (Four Strata) - Use scientifi	c names of	plants.		Sampling Point: _D
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft.	% Cover	Species?	Status	About on at Donale and Donale
1. Pinus taeda	30		Fac	Number of Dominant Species That Are OBL, FACW, or FAC:9 (A)
Liquidambar styraciflua	30	$\square$	Fac	
3. Liriodendron tulipifera	10	$\square$	Fac	Total Number of Dominant 9
4. Acer rubrum	5		Fac	Species Across All Strata: (B)
5				Percent of Dominant Species 100
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	75 % =	Total Cover		OBL species x 1 =
50% of total cover:		al cover:		FACW species x 2 =
	_		_	FAC species x3=
Sapling/Shrub Stratum (Plot size: 30 ft. )	00	57	·	X3 -
1. Persea palustris	20	<u> </u>	FacW	FACU species x 4 =
2. Pinus taeda	20		Fac	UPL species x 5 =
3. Ilex opaca	10		Fac	Column Totals: (A) (B)
4. Liquidambar styracifula	5		Fac	(0)
5. Acer rubrum	5		Fac	Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7		一片		_ <del></del>
8	60 % =	Total Cover		1 <del>=</del>
50% of total cover:				3 - Prevalence Index is ≤3.01
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30 ft. )				<u> </u>
1. Woodwardia areolata	10	$\underline{\hspace{1cm}}$	Obl	1Indicators of hydric soil and wetland hydrology must be
2. Osmundia regalis	2		Obl	present, unless disturbed or problematic.
3				
4				Definitions of Four Vegetation Strata:
5				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6		$\overline{\Box}$		larger in diameter at breast height (DBH), regardless of
7		— <del>     </del>		height.
				Sapling/Shrub - Woody plants, excluding vines, less
8		<del></del>		than 3 in. DBH and greater than 3.28 ft. (1m) tall.
9	. •			Herb - All herbaceous (non-woody) plants, regardless
10	<del></del>			of size, and woody plants less than 3.28 ft tall.
11,				or size, and woody plants loss than size it tall.
12				Woody vine - All woody vines, greater than 3.28 ft. in
<b>500</b> ( -51-1-1		Total Cover		height.
50% of total cover:	20% of total	cover:	-	
114 - 4 - 15 0(-1				
Woody Vine Stratum (Plot size: 30 ft. )  1 Smilax glauca	10	. 1	Fac	
	10	<del></del>		
2. Smilax rotundifolia			Fac	
3. Toxicondendron radicans	10	$\underline{\hspace{1cm}}$	Fac	
4		·		
5.				Hydrophytic
		Total Cover		Vegetation
50% of total cover:	20% of total	cover:	• -	Present? Yes No No
Remarks: (If observed, list morphological adaptations belo	w).			
Project area is in various stages of cut over activities.				<i>:</i>
Floject area is in various stages of cut over activities.				
	•			
				•
				·

SOIL								Samp	ling Pol	nt: <u>D</u>	
Profile Des	cription: (Describe	to the de	pth needed to do	ument the	indicator o	or confirm	the absence of Indicator	3.)			
Depth	Matrix		F	Redox Feat	ures						
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Rem	arks		
0-10	10 YR 2/1	100					Loamy sand				
10-19	10 YR 3/2	100					Loamy sand				
19-26	10 YR 6/2	90	10 YR 6/6	10	С	M	Sandy clay				_
26-41	10 YR 5/1	80	10 YR 6/6	10	D	M	Sandy clay	<del></del>			
				10	D	M					
				<del></del>			*				
¹Type: C=C	Concentration, D=De	pletion, RM	#=Reduced Matrix.	CS=Covere	ed or Coated	Sand Gra	nins. <sup>2</sup> Location: P	L≂Pore Lining, N			
Hydric Soil i			-				Indicators for Problem				
Histosol			Polyvalue i	Below Surfe	ace (S8) <b>(LR</b>	R S. T. (8)		*	ъ.		
	olpedon (A2)				) (LRR S, T		2 cm Muck (A10) (LI				
Black HI				,	(F1) (LRR (		Reduced Vertic (F18		A 150A,	3)	
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Piedmont Floodplain			•	
Stratified	Layers (A5)		Depleted M	latrix (F3)			Anomalous Bright Lo	amy Solls (F20)	(MLRA	153B)	
	Bodies (A6) (LRR P		Redox Dari	•	•		Red Parent Material				
	icky Mineral (A7) (Lf						☐ Very Shallow Dark S	• •			
	esence (A8) (LRR U	1)	Redox Dep	-	-8)		Other (Explain in Ren	narks) ·			
	ick (A9) ( <b>LRR P, T)</b> d Below Dark Surfac	o (011)	Mari (F10) (	•	(MLRA 151	1		·			
	ark Surface (A12)	c (A11)	<u></u>		es (F12) (Li	•	) <sup>3</sup> Indicators of hydroph	vtic vegetation a	nd wettar	nd hydro	ology
	rairie Redox (A16) (I	ULRA 150			(LRR P, T, U		must be present,				
Sandy M	lucky Mineral (S1) (I	LRR O, S)	<del></del>								
Sandy G	Bleyed Matrix (S4)		Reduced V	ertic (F18)	(MLRA 150)	A, 150B)					
Sandy R	tedox (S5)		Piedmont F	loodplain S	Soils (F19) (A	ALRA 149	A)				
	Matrix (S6)		Anomalous	Bright Loa	my Soils (F2	20) (MLRA	149A, 153C, 153D)				
	rface (S7) (LRR P, S Layer (if observed)			· · · · · · · · · · · · · · · · · · ·	***************************************		· · · · · · · · · · · · · · · · · · ·		_		
Type:									K**71		<b></b> 1
Depth (ii Remarks:	nches):			<u> </u>			Hydric Soll Present?	Yes_		No_	
							,				
Soil matches	s soil profile in Pamil	co County	Soll Survey.				•				
	•										
											• •
	•						100				
			•								•

# WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Spring Creek Farms	City/County: Mer	ritt/Pamilco	_ Sampling Date: 12/4/13
Applicant/Owner: Spring Creek Farms, LLC	MN		Sampling Point: Off 400-acre Sitè
Investigator(s): M.Wylie,M.Davis,H.Wicker,E. Green	B. B. Section, Township	, Range:	_ camping r cirk.
Landform (hillslope, terrace, etc.): Flat			Slope (%): <1
Subregion (LRR or MLRA): T	Lat: 35 degrees 7' 10.554"	N Long: 76 degrees 41'	3.372" W Datum: NAD 83
Soil Map Unit Name: Ap - Arapahoe loamy fine sand		NWI classif	
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes X	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology X			
Are Vegetation, Soil, or Hydrology		(If needed, explain any answ	
SUMMARY OF FINDINGS - Attach site map			
Hydrophytic Vegetation Present? Yes X	No.		
Hydric Soil Present? Yes X	No.		· <b>v</b>
Wetland Hydrology Present? Yes	No X within a W	etland? Yes	No X
Remarks:			
400-acre Site has been ditched some	time between 1988 at	nd 1993. Lateral fie	ld ditches dua every
660 feet approximately five feet deep			
recently maintained (this year). Ditche			rai ditches were
recently maintained (this year). Ditche	is in place for over 25	years.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; check a	II that anniv)		il Cracks (B6)
	ic Fauna (B13)		` ′
	Deposits (B15) (LRR U)		egetated Concave Surface (B8) atterns (B10)
	gen Sulfide Odor (C1)	Moss Trim I	
	ed Rhizospheres along Living F		Water Table (C2)
	nce of Reduced Iron (C4)	· · · = ·	rrows (C8)
	nt Iron Reduction in Tilled Soils (	<b>—</b>	/isible on Aerial Imagery (C9)
1 <b>-7</b>	Muck Surface (C7)		c Position (D2)
☐ Iron Deposits (B5) ☐ Other	(Explain in Remarks)	Shallow Aqu	uitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	
☐ Water-Stained Leaves (B9)		· D Sphagnum	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No X D	epth (inches):		
Water Table Present? Yes No X	epth (inches):	,	•
Saturation Present? Yes No X D	epth (inches):	Wetland Hydrology Prese	nt? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well			
Describe Recorded Data (Stream gauge, monitoring wei	i, aeriai priotos, previous irispec	tions), if available:	·
Remarks:			
	nahaa (niatura 20)	anaultant Abla Haw	
No saturation found within upper 24 in			
nearby area received approximately 4			A light to moderate rain
was falling during our investigation. D	ata sheet complete by	y 1115.	
·			
·			
		·	
	2		

# VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: off 400-acre Site

20.51	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet )		Species?		Number of Dominant Species _
1. Persea borbonia	70	<u>×</u>	FACW	That Are OBL, FACW, or FAC: 7 (A)
2. Liquidambar styraciflua	2		FAC	Total Number of Dominant
3				Species Across All Strata: 7 (B)
4				• •
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	72	= Total Co	ver	OBL species x 1 =
50% of total cover: 36				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 ffet )		'		FAC species x 3 =
1 Persea borbonia	30	X	FACW	FACU species x 4 =
2. Liquidambar styraciflua	- 2		FAC	UPL species x 5 =
3. Illex coriacea	30	<u>x ·                                     </u>	FACW	Column Totals: (A) (B)
	- 30			(-)
4. Vaccinium corymbosum	<del>-                                    </del>		FACW	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6		<del></del>		1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	<u> </u>			3 - Prevalence Index is ≤3.0¹
	66	= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 33	20% of	f total cover	13.2	
Herb Stratum (Plot size: 30 feet )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Illex coriacea	5	X	FACW	be present, unless disturbed or problematic.
2. Persea borbonia	5	X	FACW	Definitions of Four Vegetation Strata:
Aronia arbutifolia (Photinia pyrifolia)	<1		FACW	
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
l				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 5 m. Don and greater than 5.25 tt (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10			<del> </del>	Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Co	ver	,
50% of total cover: 5.5	20% of	f total cover	: 2.2	
Woody Vine Stratum (Plot size: 30 feet )				· .
1. Smilax rotundifolia	_ 1	Χ	FAC	
2. Loniceria japonica	<1	x	FAC	
3.				
4				
5				
5	2			Hydrophytic
		= Total Co		Vegetation   Present?   Yes X No
	20% of	f total cover	. 0.2	165
Remarks: (If observed, list morphological adaptations bel	ow).			
Predominantly pine needles and leaves	s in unde	erstory.		
FAC Neutral Test: Five FACW/OBL to		•	l nasse	hed.
Picture 31 of vegetation surrounding pi		0,01	-, passe	
i locure of or vegetation surrounding pr				
				·

pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	Depth	Matrix_			x Feature:						
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  article Soil indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1)  His	inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	_Loc²	Texture			S
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoil (A1)  Histosoil (A2)  Black Histic (A3)  Histosoil (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR O)  Loamy Mucky Mineral (F1) (LRR O)  Loamy Mucky Mineral (F1) (LRR D)  Loamy Mucky Mineral (F1) (LRR P)  Depleted Matrix (F3)  Corganic Bodies (A6) (LRR P, T, U)  Depleted Dark Surface (F3)  Corganic Bodies (A6) (LRR P, T, U)  Depleted Dark Surface (F3)  Iron Muck (A9) (LRR P, T, U)  Depleted Dark Surface (F3)  Iron Muck (A9) (LRR P, T, U)  Depleted Dark Surface (F3)  Iron Muck (A9) (LRR P, T, U)  Depleted Dark Surface (F7)  Redox Dark Surface (F7)  Redox Dark Surface (F7)  Redox Dark Surface (F7)  Iron Muck (A9) (LRR P, T, U)  Depleted Dark Surface (F7)  Iron Muck (A9) (LRR P, T, U)  Depleted Dark Surface (F3)  Iron Muck (A9) (LRR P, T, U)  Depleted Dark Surface (F3)  Iron Muck (A9) (LRR P, T, U)  Depleted Dark Surface (F3)  Iron Muck (A9) (LRR P, S, T, U)  Iron Muck (A9) (LRR P, T)  Iron Muck (A9) (LRR P, T, U)  Iron Muck (A9) (LRR P, T)  Iron Muck (A9) (LRR P, T)	)-2										
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histis (page) Histosol (page) Histosol (A2) Black Histis (page) Histosol (page) History Hist	-13	10 YR 2/1	100				• .		mucky l	oam but dr	у .
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histis (page) Histosol (page) Histosol (A2) Black Histis (page) Histosol (page) History Hist											
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histis (page) Histosol (page) Histosol (A2) Black Histis (page) Histosol (page) History Hist							•	•			
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histis (page) Histosol (page) Histosol (A2) Black Histis (page) Histosol (page) History Hist											
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histis (page) Histosol (page) Histosol (A2) Black Histis (page) Histosol (page) History Hist		<del></del>		-							_
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histis (page) Histosol (page) Histosol (A2) Black Histis (page) Histosol (page) History Hist					· - ——		·				
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histis (page) Histosol (page) Histosol (A2) Black Histis (page) Histosol (page) History Hist				_							
Histosol (A1) Histo Epipedon (A2) Histo Epipedon (A2) Histo Epipedon (A2) Histo Epipedon (A2) Hydrogen Sulfide (A4) Straffied Layers (A5) Crganic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR V) 1 cm Muck (A1) Histo Epipedon (A2) Hydrogen Sulfide (A4) Straffied Layers (A5) Crganic Bodies (A6) (LRR P, T, U) Huck Presence (A8) (LRR V) 1 cm Muck (A9) (LRR P, T, U) Huck Presence (A8) (LRR V) 1 cm Muck (A9) (LRR P, T, U) Huck Presence (A8) (LRR V) 1 cm Muck (A9) (LRR P, T, U) Huck Presence (A8) (LRR V) 1 cm Muck (A9) (LRR V) 1 cm Muck (A9) (LRR V, T) Huck Presence (A8) (LRR V) 1 cm Muck (A9) (LRR V, T) Huck Presence (A8) (LRR V, T, V) Hadrough Value (A10) (LRR V, V) Hedwort Sradie (A15) Huck (A10) (LRR V, V) Huck (A10) (LRR V,							ains				
Histic Epipedon (A2) Hadrogen Sulfide (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Coganic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) 1 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Below Dark Surface (A1) Thick Dark Surface (A1) Thick Dark Surface (A9) (LRR P, T) Depleted Below Dark Surface (A1) Thick Dark Surface (A1) Thick Dark Surface (A1) Thick Dark Surface (A9) Thick Dark Surface			able to all L							_	ric Soils':
Black Histic (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4)  Crganic Bodies (A6) (LRR P, T, U)  Muck Presence (A6) (LRR P, T, U)  Depleted Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Loamy Mineral (A7) (LRR P, T, U)  Redox Dark Surface (F7)  Redox Depressions (F8)  Lom Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Praire Redox (A16) (MILRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S3)  Suripped Matrix (S6)  Depleted Orbric (F13) (MILRA 150A)  Redox Dark Surface (F19) (LRR O, P, T)  Depleted Dark (F19) (MILRA 150A)  Sandy Redox (S5)  Suripped Matrix (S6)  Depleted Orbric (F19) (MILRA 150A)  Anomalous Bright Loamy Soils (F20) (MILRA 149A)  Anomalous Bright Loamy Soils (F20) (MILRA 149A)  Anomalous Bright Loamy Soils (F20) (MILRA 149A)  No saturation in pit at 24 inches				<b>=</b> '							
Hydrogen Sulfide (A4)   Loamy Gleyed Matrix (F2)   Depleted Layers (A5)   Organic Bodies (A6) (LRR P, T, U)   Depleted Boark Surface (F3)   Redox Dark Surface (A8) (LRR P, T, U)   Depleted Dark Surface (F3)   Mart (F10) (LRR U)   Depleted Dark Surface (F3)   Mart (F10) (LRR U)   Iron-Manganese Masses (F12) (LRR O, P, T)   Umbric Surface (F13) (LRR P, T, U)   Debleted Boark Surface (F13) (LRR P, T, U)   Depleted Solving (F14) (MLRA 151)   Iron-Manganese Masses (F12) (LRR O, P, T)   Umbric Surface (F13) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F13) (MLRA 151)   Iron-Manganese Masses (F12) (LRR O, P, T)   Umbric Surface (F17) (MLRA 151)   Iron-Manganese Masses (F12) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F3)   Mart (F10) (LRR P, T, U)   Debleted Matrix (F10) (LRR P, T, U	,										MI PA 150
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) For Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A6) (LRR U) Lorn Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Coast Praine Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR 0, S) Sandy Gleyd Matrix (S4) Dark Surface (S7) (LRR P, S, T, U) Delta Cohric (F17) (MLRA 151) Delta Cohric (F17) (MLRA 151) Find Dark Surface (MLRA 150A) Sandy Mucky Mineral (S1) (LRR 0, S) Sandy Redox (A16) (MLRA 150A) Sandy Redox (S5) Stripped Matrix (S8) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Beleted Matrix (S4) Defined Dark Surface (MLRA 150A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Hydric Soil Present? Yes X No  Anomalous Bright Loamy Soils (F20)  Mucky Mineral (S1) (LRR 0, S) Stripped Matrix (S8) Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed): Type: Depth (inches):  Beleted Matrix (S4) Dark Surface (S7) Defined Matrix (S8) Dark Surface (S7) Dark Surface (S7) Dark Surface (S7) Dark Surface (S8) Dark Surface (S8) Dark Surface (S8) Dark Surface (S8) Dark Sur		, ,		= .	-		. 0,				
5 cm Mucky Mineral (A7) (LRR P, T, U)				=		· <del>-</del> / .					
Muck (A9) (LRR V)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Cosat Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, T, U)  Delta Ochric (F17) (MLRA 151)  Inon-Manganese Masses (F12) (LRR O, P, T)  Wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F18) (MLRA 150A, 150B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed):  Type:  Depth (inches):  Picture 30 of soil profile  No saturation in pit at 24 inches	Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)		(ML	RA 153B)	-	
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Picture 30 of soil profile No saturation in pit at 24 inches				= '				T-7		. ,	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 1504) Sandy Mucky Mineral (S1) (LRR O, S) Delta Octnic (F13) (MLRA 151) Delta Octnic (F13) (MLRA 151) Wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F18) (MLRA 1504) Reduced Vertic (F18) (MLRA 1508) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Type: Depth (inches): Picture 30 of soil profile No saturation in pit at 24 inches			ر(۱		•	8)		, r			F12)
Thick Dark Surface (A12)  Coast Prairie Redoc (A18) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S8)  Dark Surface (F13) (LRR P, S, T, U)  Stritcitve Layer (if observed):  Type:  Depth (inches):  Beth Coefficial (RRP P, S, T, U)  Strictive 30 of soil profile  No saturation in pit at 24 inches			·α (Δ11)	~~~ ` ``		/MI PA 1	51)	L Other	(Explain in	Remarks)	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, sandy Mucky Mineral (S1) (LRR 0, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyd Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Reduced Vertic (F18) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) (MLRA 149A) (MLRA 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed):  Type:	-		<i>(</i> A11)	_				T) <sup>3</sup> India	cators of hy	drophytic ve	egetation and
Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed): Type: Depth (inches):  Picture 30 of soil profile No saturation in pit at 24 inches		, ,	MLRA 150A)	= '		. , .		•		. ,	•
Sandy Redox (S5)   Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6)   Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed): Type:	Sandy M	lucky Mineral (S1) (	LRR (), S)	Delta Ochric	(F17) (ML	RA 151)	-	unl	ess disturb	ed or proble	matic.
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Picture 30 of soil profile No saturation in pit at 24 inches	Sandy G	Gleyed Matrix (S4)		_							
Dark Surface (S7) (LRR P, S, T, U)  strictive Layer (if observed):  Type:  Depth (inches):  Picture 30 of soil profile  No saturation in pit at 24 inches	-			7	•	, ,	•				
strictive Layer (if observed): Type: Depth (inches): Hydric Soll Present? Yes X No  marks: Picture 30 of soil profile No saturation in pit at 24 inches		` '	C T 11\	Anomalous I	Bright Loai	my Soils (I	F20) (MLR.	A 149A, 153C	, 153D)		
Type:											
Depth (inches):		aver (if observed)	•				_				
Picture 30 of soil profile No saturation in pit at 24 inches		Layer (if observed)	•								
Picture 30 of soil profile No saturation in pit at 24 inches	Туре:	<del></del>	·					Hydric Soil	Present?	Yas X	No
	Type: Depth (in	<del></del>	·					Hydric Soil	Present?	Yes X	No
	Type: Depth (inc	ches):		— —		· .		Hydric Soil	Present?	Yes X	No
	Type: Depth (inc marks: P	icture 30 of so	oil profile			·		Hydric Soil	Present?	Yes X	No
	Type: Depth (inc marks: P	icture 30 of so	oil profile					Hydric Soil	Present?	Yes X	No
	Type: Depth (inc marks: P	icture 30 of so	oil profile					Hydric Soil	Present?	Yes X	No
	Type: Depth (inc marks: P	icture 30 of so	oil profile			•		Hydric Soil	Present?	Yes X	No
	Type: Depth (inc marks: P	icture 30 of so	oil profile					Hydric Soil	Present?	Yes X	No
	Type: Depth (inc marks: P N	icture 30 of so o saturation i	oil profile					Hydric Soil	Present?	Yes X	No
	Type: Depth (ind marks: P N	icture 30 of so o saturation i	oil profile					Hydric Soil	Present?	Yes X	No
	Type: Depth (ind marks: P N	icture 30 of so o saturation i	oil profile								
	Type: Depth (ind marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (ind marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (inc marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (inc marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (inc marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (inc marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (ind marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (ind marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (inc marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (inc marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (inc marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches							
	Type: Depth (ind marks: P N	icture 30 of so o saturation i	oil profile n pit at 2	4 inches		•					

# WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Spring Creek Farms, LLC	City/County: Merrill / Pamilco	Sampling Date: 6/8/13
Applicant/Owner: Mark Beck, Manager	State: NC	Sampling Point: D
Investigator(s): Abel Harmon	Section, Township, Range:	
Landform (hillstope, terrace, etc.): Interstream divide	Local relief (concave, convex, none): None	Slope (%): <u>0</u>
Subregion (LRR or MLRA): LRR T	Lei: 35.070070 Long: -76.886204	
Soil Map Unit Name: Sk-Slockage loamy fine sand		ssification:
•	r this time of year? Yes No [ (If no, expisin in Ren	
toes toes		s' present? Yes ' 🛛 No 📋
Are Vegetation , Soft , or Hydrology	naturally problematic? (If needed, explain any ene	wers in Remarks.)
	map showing sampling point locations, transe	
Hydrophytic Vegetation Present?  Hydrio Soil Present? Wetland  Yes  Hydrology Present?  Yes	No	No
Remarks:		•
All 3 required welland parameters are not satisfied per	1987 Manual end Regional Supplement.	
		•
HYDROLOGY		
High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algat Mat or Crust (B4)	Aquatio Fauna (B13)  Meri Deposits (B16) (LRR U)  Mydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches): NVA  Depth (Inches): >60 in.  Wetland Hydrology Prese	petated Concave Surface (B8) Items (B10) Ines (B16) Weler Table (C2) Iows (C8) Sible on Aerial Imagery (C9) Position (D2) Lard (D3) Test (D5) Ioss (D8) {LRR T, U}
Remarks:		
Project area is extensively drained.		•
•		
		·
	•	

Tree Stratum (Plot size: 30 fl. )  1. Pinus taeda  Liquidambar styraciflua  Absolute Species? State Species?  30	
→ Pinus taeda 30 X Fac	
I Liquigambar siyraciilia XO IVI ⊨no	Number of Dominant Species That Are OBL, FACW, or FAC:9 (A)
ay ay	
3. Litiodendron tulipliera 10 X Fac	Total Number of Dominant 9 Species Across All Strate: (B)
4. Acer rubrum 6 Fac	
6.	Percent of Dominant Species 100
6.	That Are OBL, FACW, or FAC: (A/B)
7.	Prevalence index workshoot:
8.	Total % Cover of: Multiply by:
75 % = Total Cover	OBL species x1=
50% of total cover: 20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 (t,)	FAC species x 3 =
1. Persea palustris 20 FacW	FACU species x 4 =
Pinus taeda 20 X Fac	
3. Ilex opaca 10 Fac	UPL species x 6 =
4 Liquidambar styracifula 5 Fac	Column Totals: (A) (B)
5. Acer rubrum 5 Fao	Prevalence Index = B/A =
<u> </u>	Hydrophytic Vegetation indicators:
6	1 - Rapid Test for Hydrophyllo Vegetation
7	
8	2 - Dominance Test is >60%
50% of Icial cover: 20% of Icial cover:	☐ 3 - Prevalence Index is ≤3.01
	Problematic Hydrophytlo Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30 ft.	_
1. Woodwardla areolata 10 Obl	Indicators of hydric soil and welland hydrology must be
	present, unless disturbed or problematic.
3	
4	Definitions of Four Vegetation Strata:
6	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6,	larger in diameter at breast height (DBH), regardless of
7	helght.
8	Sapling/Shrub - Woody plants, excluding vines, less
9,	than 3 in. DBH and greater than 3.28 ft. (1m) tall.
10	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail.
11	of size, and woody plants less than 3.28 ft fail.
2	Woody vine - All woody vines, greater than 3.28 ft. in
	height.
· 12 % = Total Cover	
50% of total cover: 20% of total cover:	
50% of total cover: 20% of total cover:	<b>1</b> 1
50% of total cover:20% of total cover: Woody Vine Stretum (Plot size:30 ft)	
50% of total cover:20% of total cover:	
Vegody Vine Stratum (Plot size: 30 ft. )  1. Smilex glauca 10  ☐ Fac  2. Smilex rotundifolia 10  ☐ Fac	
50% of total cover:20% of total cover:	
Woody Vine Stratum (Plot size: 30 ft. )  1. Smilex glauda 10 Fac  2. Smilex rotundifolia 10 Fac	
Woody Vine Stratum (Plot size: 30 ft.)  1. Smilex glauca 10 Fac  2. Smilex rotundifolia 10 Fac  3. Toxicondendron radicans 10 Fac  4	Hydronhytia
Woody Vine Stratum (Plot size: 30 ft. )  1. Smilax glauca 10 Fac  2. Smilax rotundifolia 10 Fac  3. Toxicondendron radicans 10 Fac  4.	Hydrophytic Vegetation
Velody Vine Stratum (Plot size: 30 ft.)  1. Smilex glauca 10 Fac  2. Smilex rotundifolia 10  Fac  3. Toxicondendron radicans 10 Fac  4	
Woody Vine Stratum (Plot size: 30 ft. )  1. Smilax glauca 10 Fac  2. Smilax rotundifolia 10 Fac  3. Toxicondendron radicans 10 Fac  4.	Vegetation
Velody Vine Stratum (Plot size: 30 ft.)  1. Smilex glauca 10 Fac  2. Smilex rotundifolia 10  Fac  3. Toxicondendron radicans 10 Fac  4	Vegetation
Woody Vine Stratum (Plot size: 30 ft. )  1. Smilax glauca 10 Fao  2. Smilax rotundifolia 10 Fao  3. Toxicondendron radicans 10 Fao  4.	Vegetation
Woody Vine Stratum (Plot size: 30 ft. )  1. Smilax glauca 10 Fao  2. Smilax rotundifolia 10 Fao  3. Toxicondendron radicans 10 Fao  4.	Vegetation
Woody Vine Stratum (Plot size: 30 ft. )  1. Smilax glauca 10 Fao  2. Smilax rotundifolia 10 Fao  3. Toxicondendron radicans 10 Fao  4.	Vegetation

# WETLAND DETERMINATION DATA FORM - Atlantic and Guif Coastal Plain Region

Project/Site: Spring Creek Farms, LLC Cli	ly/County: Merritt / Pamilico Sampling Date: 6/8/13
Applicant/Owner: Mark Beck, Manager	State: NC Sampling Point: A
Investigator(s): Abel Harmon	Section, Township, Range:
Landform (hilisiope, terrace, etc.): Interstream divide	ocal relief (concave, convex, none): None Slope (%): 0
Subregion (LRR or MLRA): LRR T Let: 35,078301	Long: -76.692201 Dalum: NAD 83
Soil Map Unit Name: Ap-Arepshoe loamy fine sand	NWI classification:
,	
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	
Are Vegetation, Soil, or Hydrology significantly distu	rbed? Are "Normal Circumstances" present? Yes 🛛 No 🔲
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophyllo Vegetation Present? Yes No	
Hydrio Soil Present? Wetland Yes No 🔲	le the Sampled Area within a Wetland? Yes No
Hydrology Present? Yes No No	
Remarks:	
All 3 required welland parameters are not satisfied per 1987 Manual and Regio	nal Supplement.
L	
HYDROLOGY	·
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (BB)
Surface Water (A1) Aquatic Feuna (B13)	☐ Sparsely Vegelated Concave Surface (B6)
High Weter Table (A2)  Mail Deposits (B15) (LR  Saturation (A3)  Hydrogen Suffide Odor (	
I 🚍	· · · · · · · · · · · · · · · · · · ·
<del>                                    </del>	
Sediment Deposits (B2)     Presence of Reduced into     Duit Deposits (B3)     Recent Iron Reduction in	
Algal Mat or Crust (B4) Thio Muck Surface (C7)	
I fron Deposits (B5) Other (Explain in Remail	Geomorphic Position (D2) ks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (97)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches): N	<u>//A</u>
Water Table Present? Yos No Depth (Inches): >	
Saturation Present? Yes NoX Depth (Inches): > (Includes capillary fringe)	48in. Wetland Hydrology Present? Yes No 🔀
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	s inspections), if available:
•	
Remarks:	
Project area is extensively drained.	•
	, , ,
·	
	·
•	
•	

VEGETATION (Four Strata) - Use scient	ilic names of	f plants.		Sam	pling Point: <u>A</u>	<u> </u>
Trae Siratum (Piot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1, Pinus taeda	60		Fac	Number of Dominant Species That Are OBL, FACW, or FAC:	7	(A)
Liquidambar styraciflua	15		Fac			vv
3. Lirlodendron tulipifera	5		Fac	Total Number of Dominant Species Across All Straia;	7	(B)
4			· .	] '	400	(14)
5				Percent of Domlinant Species That Are OBL, FACW, or FAC:	100	(A/B)
6	<u> </u>		4			(10)
7				Provalence Index worksheet:		
8,				Total % Cover of;	Multiply by:	
50% of total cover:		Total Cover		, , , , , , , , , , , , , , , , , , , ,	<u> </u>	_
20 % 01 (0(a) 60461,	2070 01 100	di 00401	_		2 =	
Sapling/Shrub Stratum (Plot size: 30 ft. )  1. Acer rubrum	20 .	⋈	Fao		3= 4=	_
2. Pínus taeda	10	$\overline{\boxtimes}$	Fao	<u> </u>	β=	
3. Ilex opaca	5		Fac	A		· ·
4 Liquidambar styracifula	5		Fao	Column Totals: (A	·	(B)
5. Persea paluetria	6		FacW	Prevalence Index = B/A ==		
6,			,	Hydrophytic Vegetation Indicators	:	
7	•			1 - Rapid Test for Hydroph	ytlo Vegetation	
8	•. •			2 - Dominance Test is >60	%	
		Total Cover		3 - Prevelence Index is ≤3.	01	
60% of total cover:	20% of total	covet:	•	Problematic Hydrophylic Vegs		
Herb Stratum (Piot stze: 30 ft. )				Problematic Hydrophytic Vega	nation - (Explain)	,
1. Woodwardia areolata	2	M	ОЫ	Hadhada a at indt a all and my		
2		·		<sup>1</sup> Indicators of hydric soil and wetland present, unless disturbed or problem	nygrology must	De
		一一				
3		Ħ		Definitions of Four Vegetation S	trata:	
5	. —			Tree - Woody plants, excluding via		m\ ^*
8		一首		larger in diameter at breast height		
7	• • • • • • • • • • • • • • • • • • • •			height.	,,,	
8.		<del>-                                      </del>		Sapling/Shrub - Woody plants, ex	cluding vines,	less
0				than 3 in. DBH and greater than 3.	28 ft. (1m) tall.	
		一一	•	Herb - All herbaceous (non-wood)	A plants, regard	lless
D,		<del></del>		of size, and woody plants less than	3.28 ft tall.	
2,		<del>-   </del>	$\overline{}$	Woody vine - All woody vines, gre	rates than 2.29	e in '
',	2 % =	Total Cover	-	height.	agai (1)a1) 3,20	IC. 111
50% of lotal cover:	20% of total	cover:	.	. ,		
						.,
Woody Vine Stratum (Plot eize: 30 fl. )		_				
Gelsemium semipervirens	15	<u> </u>	Fac		•	
2. Smilax rotundifolia	10	<u> </u>	Fao			
3. Vitas rotundifolla	10		Fao	•		
4				•		
5				Hydrophytic		
80% of lotal cover:	35 % = 20% of total	Total Cover		Vegetation Present? Yes	No	
Remarks: (If observed, list morphological adaptations beto	w).					
Project area is in various stages of cut over activities.						
		•				
	·					•

SOIL								Sampling Pol	nt: _A_
Profile Desc	ription: (Describe	to the de	pth needed to doc	ument the	Indicator o	r confirm	the absence of Indicate	rs.)	
Depth	Maldix		R	edox Feat	ures ·		•		
(inches)	Color (moist)	%	Color (molst)	%	Type <sup>1</sup>	Loc2	Texture	Remarks	
0-11	10 YR 2/1	100					Loamy sand		
11-17	10 YR 2/2	100					Loamy sand		
17-21	10 YR 4/1	95	10 YR 6/2	5	C	M	Sand ·		
21-30+	10 YR 6/1	86	10 YR 4/4	10	C	M	Sand	· ·	
				6 .		M			
¹Type: C=Co	ncentration, D=De	olellon, RM	l≖Reduced Matrix, (	CS=Covere	ed or Coated	Sand Gre	ains. <sup>2</sup> Location: F	L=Pore Lining, M=Mairix.	
Black Hisi Hydrogen Hydrogen Stratified Organic B d cm Muc Muck Prod 1 cm Muc Depleted Thick Dari Coast Pra Sendy Mu Sandy Re	pedon (A2) ilic (A3) is Sulfide (A4) Layers (A5) Bodles (A6) (L.R.R. P. ky Mineral (A7) (L.R. sence (A8) (L.R.R. U. k (A9) (L.R.R. P., T.) Below Dark Surface k Surface (A12) ilric Redox (A16) (Nioky Mineral (S1) (Leyed Mafrix (S4) dox (S6)	RR P, T, U) ) • (A11) ILRA 160/	Thin Dark S Loamy Muci Loamy Gley Depleted Mi Redox Depr Mail (F10) (L Depleted Oc iron-Mangar Detla Ochric Reduced Ve	turface (S9 ky Mineral red Matrix (F3) atrix (F1) Surface (F1 ark Surface essions (F RR V) chrito (F11) nese Massiace (F13) (b (F17) (ML urito (F18) (coodplain S	(F2) (F7) 8) (MLRA 181 es (F12) (LF (LRR P, T, U RA 161) (MLRA 160) (olls (F19) (M	U) ) RR O, P, T ) 1, 1608) 1LRA 149	2 cm Muck (A10) (L Reduced Vertlo (Ft Pledmont Floodplain Anomalous Bright L Red Perent Materia Very Shallow Dark 3 Other (Explain in Red	IR O) RR 8) 8) (outside MLRA 150A, i 9 Solls (F19) (LRR P, 8, 7 0 DOMY Solls (F20) (MLRA 1 (TF2) Surface (TF12)	) 153B) nd hydrology
Stripped N	Aatrix (86) ace (87) (LRR P, \$	TIN	L.I Anomalous	Bright Loar	my Soils (F2	O) (MILRA	149A, 163C, 163D)		,
	ayer (if observed):				_				
Туро:								•	
Depth (inc	thes):						Hydric Soil Present?	· YesX	No
Remarks:			-		_				
Soll matches :	soli profile in Pamile	co Gounty :	Soli Survey.			·			
							•		
		. •						•	
		•							
									•••

# WETLAND DETERMINATION DATA FORM - Atlantic and Guif Coastal Plain Region

Project/Site: Spring Creek Farms, LLC	City/County: Merritt / Pamilco Sampling Date: 6/8/13
Applicant/Owner: Mark Beck, Manager	State: NC Sampling Point: B
investigator(s): Abel Harmon	Section, Township, Range;
	Local relief (concave, convex, none): None Slope (%): 0
	35.070464 Long: -76.692009 Dalum: NAD 83
Soll Map Unit Name: Ap-Arapahoe loamy fine sand	NWI classification:
· · · · · · · · · · · · · · · · · · ·	
Are climated / hydrologic conditions on the site typical for this time of	year? Yes Ki No L (If no, explain in Remarks.)
Are Vegetallon, Scil, or Hydrology signifi	cantly disturbed? Are "Normal Circumstances" present? Yes 🔲 No 🔲 .
Are Vegetation, Soll, or Hydrology nature	illy problematio? (if needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sampling point locations, transects, important features, etc.
Hydrophyllc Vegetation Present? Yes No	П
Hydric Soil Present? Wetland Yes No	Is the Bampied Area within a Wetland? Yes No
Hydrology Present? Yes \( \square\) No	
Remarks:	
All 3 required wetland parameters are not satisfied per 1987 Manua	
	(
HYDROLOGY	•
Welland Hydrology Indicators:	Secondary indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
8urface Water (A1) Aquatic Faur	二 · · · · · · · · · · · · · · · · · · ·
terred .	s (B16) (LRR U)
<del></del>	uliide Odor (C1) Moss Trim Lines (B16)
	zospheres on Living Rools (C3) Dry-Season Water Table (C2)
	Reduced Iron (C4)
	Reduction in Tilled Solis (C6) Seturation Visible on Aerial Imagery (C9)
Algai Mai or Crust (84)	F 1
	in in Remarks)
inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	FAC-Neutrel Test (D6) Sphagnum moss (D8) (LRR T, U)
Field Observations:	
	inches): N/A
	Inchos): >48 in. Weiland Hydrology Present? Yes No 🖂
Saturation Present? Yes II No IX Depth (I	nches): >48In. Welland Hydrology Present? Yes 1 No X
Describe Recorded Data (stream gauge, monitoring well, serial phot	os, previous inspections), if available:
Remarks:	
Project area is extensively drained.	
	•

VEGETATION (Four Strata) - Use scientif	lc names o	f plants.	•	Sampling Point: B
1	Absolute	Dominant	Indicator	Dominance Test workstreet:
Tree Stratum (Plot size:30 ft)	% Cover	Species?	Status	
1. Pinus taeda	60		Fao	Number of Dominant Species That Are OBL, FACW, or FAC:8(A)
Liquidambar styracifiua	15		Fac	
3. Lirlodendron tulipifera	6		Fac	Total Number of Dominant 6 Species Across All Strate: (B)
4, Acer rubrum	5		Fao	
5				Percent of Dominent Species 100  That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8,				Total % Cover.of; Mulitiply by:
	<u>85 %</u>	Total Cover		OBL speciesx 1 =
60% of total cover:	20% of to	al cover		FACW species x 2 =
Sapling/Shruh Stratum (Plot size: 30 ff. )				FAC species x 3 =
1. Acer rubium	20		Fac	FACU species x 4 =
2, Pinus taeda	10	<u>X</u>	Fac	UPL apades x 8 =
3. llex opaca	8		Fac	Column Totals: (A) (B)
4. Liquidambar styracifula	5		Fac	
5. Morella cerifera	В .		Fac	Prevalence Index = B/A =
6. Magnolia virginiana	5		FacW	Hydrophytic Vegetation Indicators:
7				1 - Repld Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
•		Total Cover		3 - Prevalence Index is ≤3.01
50% of (olal cover:	20% of total	cover:	-	Problematic Hydrophylic Vegetation (Explain)
Herb Stratum (Plot size: 30 ft.				
1. Woodwardia areolala	10	$-\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	Obl	Indicators of hydric soil and welland hydrology must be
2				present, unless disturbed or problematic.
3				
4			-	Definitions of Four Vegetation Strata:
6		•		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6				larger in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less than 3 in, DBH and greater than 3.28 ft. (1m) tall.
9				
10				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft fail.
11				of size, and woody plants less than 3.20 it tall.
12				Woody vine - All woody vines, greater than 3.28 ft. in
NOW affectal markets		Total Cover	1	height.
50% of total cover:	20% of total	cover:	.	
Woody Vine Stratum (Plot size; 30 ft. )				·
Wandy Vine Stratum (Plot size: 30 ft. )  4. Gelsemlum semipervirens	15	M	Fac	
2. Smilax rotundifolia	10		Fac	
3.	<del></del>	<del>-      </del>		
4				· ·
T	<del></del>	<del></del>		
0,	26 % =	Total Cover		Hydrophytic Vegetation
50% of total coves:	20% of total		.	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
				i
Project area is in various stages of cul over activities.				

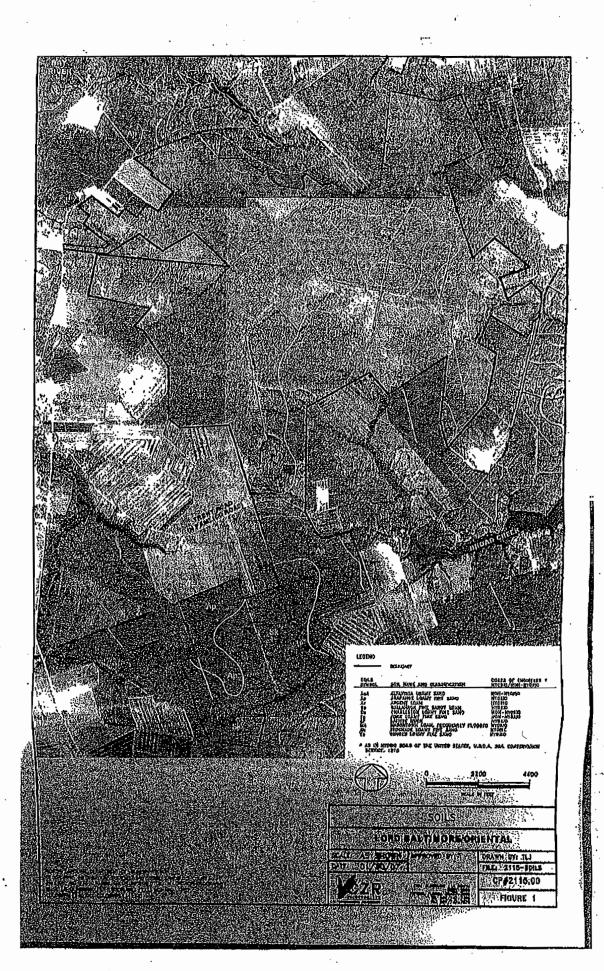
	cultuons (nasoumo	) to me de	pin needed to doo	ument the	indicator o	r confirm	the absence of	marcatoron				
Depth	Matrix		R	edox Feelu	ures .							
inches)	Color (moist)	%	Color (moist)	%	Type¹	Loo2	Tex(ure		Rem	arks		
0-11	10 YR 2/1	100					Loamy sand	• •				
11-17	10 YR 2/2	100					Loamy sand					
17-21	10 YR 4/1	96	10 YR 6/2	-5	Ç	M	. Sand					
21-30 +	10 YR 6/1	85	10 YR 4/4	10	C	M	Sand					
				5	D	M						
				-								
Type: C=C	oncentration, D=Der	oletion, RM	l=Reduced Malrix, (	S=Covere	d or Contad	Sand Gra	ilna. 1	ocation: PL=Po	re Lining, N	A=Metrlx.		
ydric Soll I	ndicators:		-				Indicators fo	r Problemalic i	łydrie Soll	s³:		
Histosof			Polyvalue B				$\overline{}$	k (A9) (LRR O)				
<del>-</del> . '	ipodon (A2)		Thin Dark 6				-	k (A10) (LRR S)				
Black His	. ,		Losmy Muci	-		)}		Verko (F18) (ou Slaadalaka Calla				
=	n Sulfide (A4) Layers (A5)		Loamy Giey Depleted Ma		F2)		_	Floodplain Solls • Bright Loomy				
	Bodies (A6) (LRR P,	T. 10)	Redox Dark		iA)		<u> </u>	s Bright Loamy It Material (YF2)		harior i	asbj	
_	cky Mineral (A7) (LR		forms.	-	-			ow Dark Surfac				
	sence (A8) (LRR U)		Redox Depr				1-1	iain in Remarks	•			
	ck (A9) (LRR P, T)		☐ Marl (F10) (L	•	7		_ ``	•				
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 161)	)				•		
Thick Do	rk Surface (A12)		iron-Mangar	ese Masse	99 (F12) (LR	R O, P, T)	) Indicators	of hydrophylic ve	egetalion a	nd wellen	d hydro	logy
<b>⊣</b>	aitie Redox (A16) (M	ILRA 160/	A) 🔲 Umbrio Surfe	ica (F13) (	1000 7 11	•	must b	e present, unles	is disturbed	i or proble	maus,	
						)						
_	ucky Mineral (S1) (L	RR O, 8)	Della Ochric	(F17) (ML	RA 161)							
Sandy G	leyed Makix (SA)	RR Q, 8)	Reduced Ve	(F17) (ML) tile (F18) (T	RA 151) MLRA 150A	, 180B)		•				
Sandy G	leyed Maulx (S4) edox (S5)	RR 0, 8)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	4)	•				
Sandy G Sandy Ro Stripped	leyed Malilx (S4) edox (S5) Malfix (S6)		Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A		•				
Sandy G Sandy Re Stripped Dark Sur	leyed Maulx (S4) edox (S5)	, ፕ. ህ)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	4)	•			•	
Sandy G Sandy Re Stripped Dark Sur	leyed Maliix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S,	, ፕ. ህ)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	4)	•	·			
Sandy G Sandy R Stripped Dark Sur Restrictive Type:	leyed Maliix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S,	, ፕ. ህ)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	4)	(ספ	Yes_		No _	· 
Sandy G Sandy Ro Stripped Dark Sur Restrictive I Type: Depth (In	leyed Malrix (S4) edox (S5) Mairix (S6) face (S7) (LRR P, 8, .ayer (if observed):	, ፕ. ህ)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No _	
Sandy G Sandy R Stripped Dark Sur Restrictive I Type: Oepth (In	leyed Malrix (S4) edox (S5) Mairix (S6) face (S7) (LRR P, 8, .ayer (if observed):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes_	<u> </u>	No_	
Sandy G Squdy Ri Stripped Dark Sur Restrictive I Type: Depth (In Remarks:	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No _	
Sandy G Squdy Ri Stripped Dark Sur Restrictive I Type: Depth (In Remarks:	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _	<u> </u>	No _	
Sandy G Sandy R Stripped Dark Sur Restrictive I Type: Oepth (In	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No_	· 
Sandy G Sandy R Stripped Dark Sur Restrictive I Type: Oepth (In	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No _	
Sandy G Sandy R Stripped Dark Sur Restrictive I Type: Oepth (In	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No _	
Sandy G Sandy R Stripped Dark Sur Sostrictive I Type: Depth (In	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No _	·
Sandy G Sandy R Stripped Dark Sur Restrictive I Type: Oepth (In	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No _	
Sandy G Sandy R Stripped Dark Sur Restrictive I Type: Oepth (In	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes_		No _	
Sandy G Squdy Ri Stripped Dark Sur Restrictive I Type: Depth (In Remarks:	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No _	
Sandy G Squdy Ri Stripped Dark Sur Restrictive I Type: Depth (In Remarks:	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No_	· 
Sandy G Squdy Rd Stripped Dark Sur Restrictive I Type: Depth (In	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No_	<u>.</u>
Sandy G Sandy R Stripped Dark Sur Restrictive I Type: Oepth (In	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No_	
Sandy G Squdy Ri Stripped Dark Sur Restrictive I Type: Depth (In Remarks:	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No_	<u> </u>
Sandy G Squdy Ro Stripped Dark Sur Restrictive I Type: Depth (In Remarks:	leyed Malrix (S4) edox (S5) Malrix (S6) face (S7) (LRR P, S, Layer (If observed): ches):	, <b>T</b> . U)	Reduced Ve	(F17) (ML) tilo (F18) (F nodplein Sc	RA 151) MLRA 150A olis (F19) (M	, 150B) LRA 149A	A) 149A, 163O, 15:	(ספ	Yes _		No_	

### WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Spring Creek Farms, LLCC	lly/County: Merritt / Pamilco Sampling Date: 6/8/13
Applicant/Owner: Mark Beck, Manager	State: NO Sampling Point: C
inveetigator(s): Abel Harmon	Secilon, Township, Range;
	ocal relisf (concave, convex, none): None Slope (%): 0
Subregion (LRR or MLRA): LRR T Lat: 35,07267	
Soil Map Unit Name: Sk-Stockade loamy fine sand	NWI classification:
Are climated hydrologic conditions on the site typical for this time of year? Y	es <u>Kal</u> No <u>L.1</u> (If no, explain in Remarks.)
Are Vegetalion, Soli, or Hydrology significantly dist	urbed? Are "Normal Circumstances" present? Yes 🗵 No 🗌
Are Vegelation, Soil, or Hydrology naturally problem	natio? (if needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing se	impling point locations, transects, important features, etc.
Hydrophytlo Vegetation Present? Yes X No X	
Hydric Soil Present? Welland Yes No	is the Sampled Area within a Wetland? Yes No
Hydrology Present? Yes No No	Hiding a statistical
Remarks:	
All 3 required welland parameters are not satisfied per 1987 Manual and Regi	onal Supplement.
HYDROLOGY	
Wotland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soli Cracks (B6)
Li Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
L  High Water Table (A2)   Mari Doposits (B16) (Li	
Water Marks (B1) Oxidized Rhizospheres	· ·
Sediment Deposits (B2) Presence of Reduced I	· · · · · · · · · · · · · · · · · · ·
☐ Drift Deposits (B3) ☐ Recent Iron Reduction	
Algai Mal or Crust (B4)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Rema	rks) · Shallow Aquitard (D3)
inundation Visible on Aerial imagery (B7)	FAC-Neutrel Test (D8)
Water-Stained Leaves (B9) Field Observations:	Sphagnum moss (D8) (LRR T, U
Surface Water Present? Yes No Depth (Inches);	N/A
Water Table Present? Yes No Depth (Inches):	
Saturation Present? Yes No Depth (Inches):	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, serial photos, previous)	ra Inamadiana). If qualishing
posoning Handlad Data foregott Sands, motificities and agust busins, bisage	a mapactunist, ii avalianio.
Romarks:	
Project area is extensively drained.	
1 10 jour dies 10 annotatif distillation	•
	·
*	·

10-16	SOIL									Samp	ling Pol	nt: C	
Inches) Color (molst)	Profile Desc	ription: (Describ	e to the de	pth needed to do	ument th	o indicator c	or confirm	the absonce of indic	ators.}				
10-16	Depth	Matrix		F	Redox Fea	iures							
19-28 10 YR 3/2 100 19-28 10 YR 8/8 10 0 M Sandy clay 39-41 10 YR 9/8 10 10 YR 8/8 10 D M Sandy clay 19 D M  Type: O=Concentration, D=Depletion, RM=Reduced Matth, CS+Covered or Coated Sand Grains.  Type: O=Concentration, D=Depletion, RM=Reduced Matth, CS+Covered or Coated Sand Grains.  Type: O=Concentration, D=Depletion, RM=Reduced Matth, CS+Covered or Coated Sand Grains.  Type: O=Concentration, D=Depletion, RM=Reduced Matth, CS+Covered or Coated Sand Grains.  This coated Sand Grai	inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loo²	Texture		Rem	arks		
19-28	0-10	10 YR 2/1	100					Loamy sand					
28-41 10 YR 8/1 80 10 YR 8/6 10 D M Sandy day    Type: C=Concentralion, D=Depletion, RM=Raducod Matthx, C6=Covered or Coated Sand Grains. *\frac{1}{2}\triangle Coated Gr	10-19	10 YR 3/2	100.					Loamy sand					
Type: C=Concentration, D=Depletion, RM=Raducad Matrix, C8+Covered or Coated Sand Grains.  Types: C=Concentration, D=Depletion, RM=Raducad Matrix, C8+Covered or Coated Sand Grains.  Thiolactors:    Historad (A1)	19-28	10 YR 6/2	20	10 YR 8/6	10	C	M	Sandy clay					
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Toolaidn: PL=Pore Lining, M=Matrix, Lydrin Soil Indicators for Problematic Hydrin Soils.  Hislio Epipedon (A2)	28-41	10 YR 8/1	80	10 YR 8/6	10	D	M	Sandy clay					
Hislio Epipedon (A2)					. 10	D	м						_
Sydric Soll Indicators:    Hislosci (A1)													
Sydric Soll Indicators:    Hislosci (A1)													
Histosol (A1)	¹Type: C≃Co	oncentration, D≂De	pletton, RM	l=Reduced Malrix,	CS#Cove	red or Coated	Sand Gr	ains. Location	n: PL=Po	re Lining, M	=Matrix.	•	
Histic Epipedon (A2)	<u></u> -,									Hydric Soli	s³:		
Black Histio (A3)													
Hydrogen Suifide (A4)		• . • •											
Stretlined Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Redox Dark Surface (F3)  Muck Presence (A6) (LRR P, T, U)  Depleted Denk Sturface (F7)  Anomalous Bright Loamy Solis (F20) (MLRA 163B)  Red Parent Material (TF2)  Muck Presence (A6) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (F12)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S8)  Pledmont Floodplain Solis (F19) (MLRA 149A)  Stipped Metrix (S9)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Leyer (if observed):  Type:  Deplit October (S1) (LRR P, S, T, U)  Restrictive Leyer (if observed):  Type:  Deplit (Inches):  Soil matches soil profile in Pamilico County Soil Survey.	<del></del>	. ,					))	Pro				-	
Cryambo Bodies (A6) (LRR P, T, U)		, ,				(1-2)						•	
6 cm Mucky Mineral (A7) (LRR P, T, U)		,	. T. UI			FA)		_			luctor	1000)	
Muck Presence (A8) (LRR U)	_				,			Process.		•			
1 cm Muck (A9) (LRR P, T)	_							P					
Thick Dark Surface (A12)	_	• • •		= ' '	,								
Cosst Preirie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Must be present, unless disturbed or problematic.  Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 181).  Reduced Vertic (F18) (MLRA 150A, 160B)  Sandy Redox (S5) Pledmont Floodplain Solis (F19) (MLRA 149A).  Stripped Matrix (S6) Anomalous Bright Learny Solis (F20) (MLRA 149A, 163C, 163D)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Leyer (if observed):  Type: Depth (inches): Hydric Soli Present?  Hydric Soli Present?  Yes No	Depleted	Below Dark Surfac	e (A11)	Deplated O	chrlo (F11)	(MLRA 161	)						
Sandy Mucky Mineral (S1) (LRR O, S)   Delia Ochric (F17) (MLRA 150A, 150B)     Sandy Redox (S5)   Reduced Vertic (F18) (MLRA 150A, 150B)     Sandy Redox (S5)   Pladment Floodplain Solis (F19) (MLRA 149A)     Stripped Matrix (S6)   Anomalous Bright Learny Solis (F20) (MLRA 149A, 153C, 153D)     Dark Burface (S7) (LRR P, S, T, U)     Restrictive Leyer (if observed): Type:	Thick Dar	k Surface (A12)		Iron-Manga	nese Mes	ses (F12) (LF	RO, P, T	) aindicators of hyd	rophyllo v	egetation ar	nd weller	id hydro	ology
Sandy Gleyed Matrix (S4)	Cosst Pre	irie Redox (A16) (f	VILRA 160/	A) 🔲 Umbric Suri	face (F13)	(LRR P, T, L	J}	must be pres	ent, unles	bedrivielb ea	or probl	emallo.	
Sandy Redox (S5)   Pladmont Floodplain Soils (F19) (MLRA 149A)   Stripped Matrix (S6)   Anomalous Bright Learny Soils (F20) (MLRA 149A, 163C, 163D)   Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:	_		LRR O, S)	Della Ochric	c (F17) (M	LRA 161}		•					
Suipped Meirix (S8)	-					•	•						
Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (if observed):  Type: Depth (Inches): Hydric Soil Present?  Yes No Remarks:  Soil matches soil profile in Pamilico County Soil Survey.		• ;		1-1	•			-					
Restrictive Leyer (if observed): Type: Depth (Inches): Hydric Soil Present? Yes No Remarks: Soil matches soil profile in Pamilico County Soil Survey.			<b>*</b> 210	Anomalous	Bilgni Loa	imy Solis (F2	U) (WILKA	149A, 163G, 163D)					
Depth (Inches):							•						
Depth (Inches):	Tvae:												
Remarks: Soll matches soil profile in Pamilco County Soli Survey.	<i></i> —	ches):		<del></del>				Hydria Sall Present	•	Yes	M	No	۲
				<del></del>				, , , and and a second				,,,,	
	Soll matches	soil profile in Pamil	co County	Soil Survey.									
		•	•	•				•					
				•									
			'										,
				•									,
											•		
												*	
		٠.				٠.							

🎳 Sample Point A. Sample Point 6 🚜 🍠 Sample Point B ္ခြဲ Sample Point D Google Earth Pro



WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Spring Crossic Farms	City/County: _ ~	Sampling Date: 144/3
Applicant/Owner:	·	State: Sampling Point:
Investigator(s):		,
Landform (hillslope, terrace, etc.):  Subregion (LRR or MLRA): La	at: 150 07 (0.554" NLong:	16" 41' 3.372"W Datum: NAD
Soil Map Unit Name:		NWI classification:
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant		al Circumstances" present? Yes No
		explain any answers in Remarks.)
Are Vegetation, Soil, or Hydrology na		
SUMMARY OF FINDINGS - Attach site map s	ihowing sampling point locati	ons, transects, important features, et
Hydrophytic Vegetation Present? Yes No	ls the Sampled Area	
Hydric Soil Present? Yes No	within a Wetland?	
Wetland Hydrology Present? Yes No	,	
Remarks:	-6-1	
5' deep detch every 666 detches were Intree 1983-1 Circumterios Holloteen jie	on the wint	
The state of the s		
detella were Veller 1983-1	1997	9.
CITCUMTENCES HOMEREN 10	~ · · · · · · · · · · · · · · · · · · ·	<u></u>
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all the		Surface Soil Cracks (B6)
Surface Water (A1) Aquatic F High Water Table (A2) Marl Dep	osits (B15) (LRR U)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
	n Sulfide Odor (C1)	Mosa Trim Lines (B16)
<del>-</del>	Rhizospherea along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (83) Recent In	ron Reduction in Tilled Soils (C8)	Saturation Visible on Aerial Imagery (C9)
	ck.Surface (C7)	Geomorphic Position (D2)
	xplain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	·	Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No X Dept	th (inches):	
	th (inches):	
Saturation Present? Yes No Dept	th (inches): Wetland	Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, as		silable
Describe Recorded Data (Stream gauge, monitoring weil, at		anathe.
Remarks:	<del></del>	
	10 24" Bis UT#	(   0 . ^
No Saturda Coste Cogy	pr 21	lite Chun
1 . n · 1	$\frac{1}{2}$	Claud.
No Salvida with any	A Scharge	lite Pain.
1 0 0	U	<u>(</u>
Dite Man Today	·	
0		
1115		
1112	·	
		·
	·	,

The Park Short

### VEGETATION (Four Strata) - Use scientific names of plants.

50% of total cover: \_\_\_\_

50% of total cover: \_\_

50% of total cover:

50% of total cover: \_\_\_\_\_ 20% of total cover: \_\_\_

Tree Stratum (Plot size:

1. Yansin

3. Illex Collins

Herb Stratum (Plot size; 1. Illey Cullion 2. Verseic backman

Woody Vine Stratum (Plot size:

2. Somienza LAAmica

1. Similar retondibles

Remarks: (If observed, list morphological adaptations below).

1. (Yould perconice

2. Sweet Our

Sapling/Shrub Stratum (Plot size:

2. 5100 pt : 72 cm

4. MARCINIC CONVINSIN

3. Cirunia

solute Dominant Indicator	Dominance Test worksheet:
Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
276	Total Number of Dominant Species Across All Strata:(B)
	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B
	Prevalence Index worksheet:
	Total % Cover of: Multiply by:
- Total Cavas	OBL species x 1 =
= Total Cover	FACW species x 2 =
20% of total cover:	FAC species x 3 =
101	FACU species x 4 =
101	UPL species x 5 =
<u>- (, , , , , , , , , , , , , , , , , , ,</u>	Column Totals: (A) (B)
\$%	(1)
4% <u> </u>	Prevalence Index = B/A =
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
<u> </u>	2 - Dominance Test is >50%
	3 - Prevalence Index is ≤3.0¹
= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
20% of total cover:	
<u> </u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	Definitions of Four Vegetation Strata:
17.	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	Herb – All herbaceous (non-woody) plants, regardless of, size, and woody plants less than 3,28 ft tall.
	Woody vine - All woody vines greater than 3.28 ft in height.
= Total Cover	· · · · · · · · · · · · · · · · · · ·
20% of total cover:	
0	
<del>/\dolday</del>	
///	
	Hydrophytic
= Total Cover	Vegetation Present? Yes No
20% of total cover:	

( Dck BRYLY

US	Army	Corps	of	Engineers
----	------	-------	----	-----------

Fight Oak Theel

SOIL Sampling Point:

Depth	cription: (Describe	<u> </u>	Redox	<u>Features</u>					
inches)	Color (moist)	%	Color (moist)	% Type	Loc <sup>2</sup>	Texture		Remarks	
72				·			Flerit	1 M st	
1-13	1040/2/1					Micke	vam	!	
	3 . 1					J			
			·						-;
		·							_ '
		pletion, RM=	Reduced Matrix, CS	=Covered or Coa	ated Sand Gr			Pore Lining, N	
-	Indicators:						for Proble	matic Hydric	Soils <sup>3</sup> :
_ Histosol	, ,	•		ow Surface (S8)	-		Muck (A9) (L		
	pipedori (A2)			face (S9) (LRR S			Muck (A10) (		W DA 4504 I
_	listic (A3) en Sulfide (A4)	•	Loamy Mucky	Mineral (F1) (LF	RR O)			18) <b>(outside !</b> ain Soils (F19)	
	d Layers (A5)		Depleted Matr	. ,				Loamy Soils (	
_	Bodies (A6) (LRR	P, T, U)	Redox Dark S		•		RA 153B)	(	,
_	ucky Mineral (A7) (L						Parent Mater	. ,	
	resence (A8) (LRR		Redox Depres	, ,				Surface (TF1	2) (LRR T, U
-	uck (A9) <b>(LRR P, T)</b> d Below Dark Surfa		Mari (F10) (LF	RR U) ric (F11) (MLRA	1511	Other	(Explain in I	Remarks)	
	ark Surface (A12)	· (ATT)		ese Masses (F12	•	T) <sup>3</sup> Indi	cators of hyd	drophytic vege	tation and
_	Prairie Redox (A16)	MLRA 150A	_	ce (F13) (LRR P,		•	-	ogy must be p	
_ Sandy N	Mucky Mineral (S1)	LRR O, S)	Delta Ochric (	F17) (MLRA 151	1)		•	ed or problema	
Cand. (									
	Gleyed Matrix (S4)			ic (F18) (MLRA					
_ Sandy F	Redox (S5)		Piedmont Floo	odplain Soils (F1	9) (MLRA 14	9A)	·,		
_ Sandy F _ Stripped	Redox (S5) d Matrix (S6)	8 T III	Piedmont Floo		9) (MLRA 14	9A)	C, 153D)		
_ Sandy F _ Stripped _ Dark Su	Redox (S5) d Matrix (S6) urface (S7) (LRR P,		Piedmont Floo	odplain Soils (F1	9) (MLRA 14	9A)	C, 153D)		
Sandy F Stripped Dark Su estrictive	Redox (S5) d Matrix (S6)		Piedmont Floo	odplain Soils (F1	9) (MLRA 14	9A)	C, 153D)	<u> </u>	
_ Sandy F _ Stripped _ Dark Su	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floo	odplain Soils (F1	9) (MLRA 14	9A) A 149A, 1530	C, 153D)	Yes	No
Sandy F Stripped Dark Suestrictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14	9A) A 149A, 1530		Yes	No
Sandy F Stripped Dark Suestrictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14	9A) A 149A, 1530		Yes	No
Sandy F Stripped Dark Suestrictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14	9A) A 149A, 1530		Yes	No
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14	9A) A 149A, 1530		Yes	No
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floo	odplain Soils (F1 right Loamy Soils	9) (MLRA 14	9A) A 149A, 1530		Yes	No
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14	9A) A 149A, 1530		Yes	No
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floo Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Sol	l Present?		No
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floo Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		No
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floo Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		No
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floo Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Sol	l Present?	. ,	
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Sol	l Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matnx (S6) urface (S7) (LRR P, Layer (if observed		Piedmont Floo Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?	. ,	
Sandy F Strippec Dark Su strictive Type: Depth (in marks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		
Sandy F Strippec Dark Su strictive Type: Depth (in marks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	I Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	I Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	I Present?		
Sandy F Stripped Dark Su strictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed uches):	in Hol	Piedmont Floc Anomalous Br	odplain Soils (F1 right Loamy Soils	9) (MLRA 14 s (F20) (MLR	9A) A 149A, 1530 Hydric Soi	l Present?		

Depth	Matrix			Redox Feat						
iches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loce	Texture		Remarks	
0-10	10 YR 2/1	100					Loamy sand			
10-19	10 YR 3/2	100		·			Loamy sand			
19-28	10 YR 6/2	90	10 YR 8/8	10	<u> </u>	<u>M</u>	Sandy clay			
28-41	10 YR 5/1		10 YR 8/8	10	<u>p</u>	<u> </u>	Sandy clay			
				10	<u>D</u>	····				
 Tvne: C≔Co	ncentration, D=Dep	lellon. RM		CS=Cover	ed or Coaled	Sand Gre	alos. ZLocallo	n: PL≃Pore	Lining, M=Matrix.	
drie Sell in		,				***************************************	Indicators for Prob			
] Histosol (	,		Polyvalue E	Below Surfe	ace (S8) (LR	R 8, T, U)		-	,	
1 Histic Epi	pedon (A2)	: •	(mm)		) (LRR 9, T,		2 cm Muck (A10			
Black His	llo (A3)		Loamy Muc	ky Mineral	(F1) (LRR C	))	Reduced Vertic	(F18) (outain	dė MLRA 160A,8	)
	Sulfide (A4)		Loamy Glay		(F2)		FT-1		19) (LRR P. 8, T)	
	Layers (A0)		Depleted M		ra.	,			lis (F20) (MLRA 1	(53B)
~ .	lodies (A6) (LRR P, ky Mineral (A7) (LR		Redox Dark Depieted Da	-	•		Red Parent Male	• -	TE49)	
<del>-</del>	sence (A8) (LRR U)		Redox Depa				Other (Explain in		11-12)	
=	k (A0) (LRR P, T)	'	Mari (P10) (I		<b>~</b> /		EX Plant (emplant in	, , , , , , , , , , , , , , , , , , , ,		
<b>⇒</b>	Below Dark Surface	(A11)		•	(MLRA 151)	)				
٦	b Burfaco (A10)		<b>П</b>					onbudla usaa	dation and waiter	d hydrologi
Thick Dar	k Surface (A12)		i kon-Manga	nese Mass	188 (F12) (LR	IR O, P, T				
Coast Pra	irle Redox (A16) (M		A) 🔲 Umbric Suri	lace (F13)	(LRR P, T, U				Adorq to bedruisk	
Coast Pra	iirle Redox (A16) (M Icky Mineral (S1) (L		A) Umbric Suri	(ace (F13) o (F17) (MI	(LRR P, T, U LRA 161)	1)				
Coast Pra Sandy Mu Sandy Glo	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4)		A) Umbric Suri Delta Ochric Reduced Ve	(ace (F13) o (F17) (Mi ertio (F18)	(LRR P, T, U LRA 161) (MLRA 1804	) , 160B)	must be pres			
Coast Pra Sandy Mu Sandy Glo Sandy Re	iirle Redox (A16) (M icky Mineral (S1) (L syed Matrix (S4) dox (S5)		A) Umbric Suri Delia Ochric Reduced Ve	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres			
Coast Pra Sandy Mt Sandy Gl Sandy Re Stripped I	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4)	RR O, S)	A) Umbric Suri Delia Ochric Reduced Ve	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres			
Coast Pra Coast Pra Sandy Mt Sandy Gl Sandy Re Corped N Corped N Corped N	irle Redox (A16) (M icky Mineral (S1) (L eyed Matrix (S4) dox (S5) Matrix (S6)	RR O, S) T, U)	A) Umbric Suri Delia Ochric Reduced Ve	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres			
Coast Pra Sandy Mt Sandy Gle Sandy Re Stripped M Dark Surf	irie Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8,	RR O, S) T, U)	A) Umbric Suri Delia Ochric Reduced Ve	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres		Aslurbad or probk	
Coast Pra Sandy Mt Sandy Gt Sandy Re Sandy Re Stripped to Dark Surficetrictive L Type: Depth (Internal	irle Redox (A16) (M loky Mineral (61) (L loyed Matrix (64) dox (65) Alatrix (66) ace (67) (LRR P, 8, ayer (If observed):	RR O, S) T, U)	A) Umbric Suri Delia Ochric Reduced Ve	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres	ent, uniess o		
Coast Pra Sandy Mt Sandy Gt Sandy Re Sandy Re Stripped to Dark Surficetrictive L Type: Depth (Internal	irle Redox (A16) (M loky Mineral (61) (L loyed Matrix (64) dox (65) Alatrix (66) ace (67) (LRR P, 8, ayer (If observed):	RR O, S) T, U)	A) Umbric Suri Delia Ochric Reduced Ve	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (61) (L loyed Matrix (64) dox (65) Alatrix (66) ace (67) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Gt Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Gt Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Gt Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irle Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Inc.	irie Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Inc.	irie Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Cosst Pres Sandy Mt Sendy Gle Sendy Re Sendy Re Continued Type: Depth (Inc. Remarks:	irie Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Inc.	irie Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.
Coast Pra Sandy Mt Sandy Ge Sandy Re Stripped M Dark Surficetrictive L Type: Depth (Incommerce	irie Redox (A16) (M loky Mineral (S1) (L eyed Matrix (S4) dox (S6) Matrix (S6) ace (S7) (LRR P, 8, ayer (If observed):	T, U)	A)  Umbric Suri	face (F13) o (F17) (Mi ertio (F18) loodplain S	(LRR P, T, U LRA 151) (MLRA 150A Solis (F19) (M	) 1, 160B) SLRA 149/	must be pres A) 149A, 153C, 153D)	ent, uniess o	Aslurbad or probk	maile.

/		
\ /	NON-EXEMPT	
	NON EXCENSE	

PARTIALLY EXEMPT \_\_\_\_ EXEMPT

### Wylie, Mike

From: Sent:

Wylie, Mike

Tuesday, February 18, 2014 12:48 PM

To:

'Biddlecome, William J SAW'; Davis, Molly; McLendon, Scott C SAW; Wicker, Henry M JR

SAW; Mancusi-Ungaro, Philip; Able, Tony; Bowers, Todd

Cc:

Greer, Emily C SAW

Subject:

RE: Spring Creek Farms (UNCLASSIFIED)

Ok: for Wednesday, 2/19 at 090€

Talk to you then

Mike

----Original Message----

From: Biddlecome, William J SAW [mailto:William.J.Biddlecome@usace.army.mil]

Sent: Tuesday, February 18, 2014 11:03 AM

To: Wylie, Mike; Davis, Molly; McLendon, Scott C SAW; Wicker, Henry M JR SAW; Mancusi-Ungaro,

Philip

Cc: Greer, Emily C SAW

Subject: RE: Spring Creek Farms (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Best day for me will be Wednesday anytime and Thursday in the am.

----Original Message----

From: Wylie, Mike [mailto:Wylie.Mike@epa.gov]

Sent: Tuesday, February 18, 2014 10:55 AM

To: Biddlecome, William J SAW; Davis, Molly; McLendon, Scott C SAW; Wicker, Henry M JR SAW;

Mancusi-Ungaro, Philip Cc: Greer, Emily C SAW

Subject: [EXTERNAL] RE: Spring Creek Farms (UNCLASSIFIED)

Now that we are back to work, can we talk today, Wednesday or Thursday about this site.

can relay my conversation with Able Harmon last week.

----Original Message----

From: Biddlecome, William J SAW [mailto:William.J.Biddlecome@usace.army.mil]

Sent: Tuesday, February 11, 2014 9:56 AM

To: Davis, Molly; McLendon, Scott C SAW; Wylie, Mike; Wicker, Henry M JR SAW

Cc: Greer, Emily C SAW

Subject: RE: Spring Creek Farms (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Emily will be in training all week in Huntsville.

----Original Message----

From: Davis, Molly [mailto:Davis.Molly@epa.gov]

Sent: Tuesday, February 11, 2014 9:46 AM

To: Biddlecome, William J SAW; McLendon, Scott C SAW; Wylie, Mike; Wicker, Henry M JR SAW

Cc: Greer, Emily C SAW

Subject: [EXTERNAL] RE: Spring Creek Farms (UNCLASSIFIED)

Region 4 is shut down due to the impending ice storm and its likely we will be closed tomorrow too. Is Emily back later this week - Mike and I should be back by Thursday? I will look into reserving a conference line if we want to have the call in the next few days and maybe Mike and I can connect from home, assuming the ice doesn't knock out the power. Molly

----Original Message----

From: Biddlecome, William J SAW [mailto:William.J.Biddlecome@usace.army.mil]

Sent: Tuesday, February 11, 2014 8:03 AM

To: McLendon, Scott C SAW; Wylie, Mike; Wicker, Henry M JR SAW

Cc: Davis, Molly; Greer, Emily C SAW

Subject: RE: Spring Creek Farms (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

I'm here in the Washington Office today unless conditions warrant early dismissal later on. Emily is in training in Huntsville. Let me know # etc. for call in if we decide to have one today. Thanks!

Bill

----Original Message-----From: McLendon, Scott C SAW

Sent: Monday, February 10, 2014 5:07 PM To: Wylie, Mike; Wicker, Henry M JR SAW

Cc: Davis, Molly; Biddlecome, William J SAW; Greer, Emily C SAW

Subject: RE: Spring Creek Farms (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Mike:

I have call at 0930 tomorrow that will last about 30 minutes, other than that I am free, not sure about the rest.

Scott

----Original Message-----

From: Wylie, Mike [mailto:Wylie.Mike@epa.gov]

Sent: Monday, February 10, 2014 3:34 PM

To: McLendon, Scott C SAW; Wicker, Henry M JR SAW

Cc: Davis, Molly

Subject: [EXTERNAL] Spring Creek Farms

Scott/Henry: I just had a conversation with Abel Harmon on the ditch work. Can we talk tomorrow morning for a short while (I promise a short discussion) on next steps? Molly and I plan on coming to work but we maybe shutdown - everybody is freaked from our last snow/ice debacle.

Thanks

Document ID:	0014	_
/		
✓ NON-EXEMPT	PARTIALLY EXEMPT	EXEMPT

### Greer, Emily C SAW

From:

Todd Miller [toddm@nccoast.org]

Sent:

Thursday, August 29, 2013 8:47 AM

To:

Greer, Emily C SAW

Cc:

McLendon, Scott C SAW; Wicker, Henry M JR SAW; Derb Carter

Subject:

[EXTERNAL] Large-scale wetland conversion now occurring in Pamlico County?

Attachments: PastedGraphic-1.tiff

Dear Emily,

A local farmer in Pamlico County has called me about new ditching and land clearing that is now occurring to convert wetlands to farmland on a 4,000+ acre parcel. His is very concerned that this wetland conversion would be allowed under Section 404 of the federal Clean Water Act. He says he knows the land very well, and it is very wet.

I've attached a map that shows the land that is being ditched. I heard this morning from the local farmer that there are five bulldozers and a dragline on site, and working.

Has this conversion been approved by the U.S. Corps of Engineers? Has a permit been issued to allow this? I would like to review the files on the project, and any other information that will help me better understand how this is allowed to occur.

I would appreciate your response on this matter since the clearing is now underway. We will file any necessary requests under the Freedom of Information Act if that's required.

Thank you.

Todd

Todd Miller, Executive Director N.C. Coastal Federation 3609 N.C. 24 (Ocean) Newport, N.C. 28570 (252) 393-8185 (252) 393-7508 (fax) (252) 241-0191 (cell)

Thank you for referring new members!

Subscribe to Coastal Review Online

11/5/H no attachment included &

1

### Greer, Emily C SAW

From:

Todd Miller [toddm@nccoast.org]

Sent:

Wednesday, September 04, 2013 12:24 PM

To:

Greer, Emily C SAW

Cc:

McLendon, Scott C SAW; Wicker, Henry M JR SAW; Derb Carter; Biddlecome, William J

SAW; Scarbraugh, Anthony; Pruitt, Carl E SAW

Subject:

Re: [EXTERNAL] Large-scale wetland conversion now occurring in Pamlico County?

(UNCLASSIFIED)

Attachments:

DCM wetland data on Pamlico Tracts.doc

Dear Emily,

Attached are series of wetland maps that come from the mapping tool provided by the N.C. Division of Coastal Management website. As you can see from the attached file, much of this land is considered to be wetlands by the Division with "substantial" ecological and water quality values.

Local landowners inform me that prior to around 1990, the only ditches on this property were the roadside ditches. The previous land owners dug some other ditches a few years after they had most of it logged in 1990. There were no pine plantations planted. The trees grew back naturally with a lot of sprouts from old stumps. predominately hardwoods. Currently, they are clearing full speed ahead, and we understand they have plans to dig two new ditches between the old ones. The old ones are approximately 660 feet apart. The soil series for this property is mostly Arapahoe which is a very wet soil.

From the historic map (1993) you provided and the recent google map, it looks like some of the area was ditched for silviculture, some not. Given the nature of these soils and the spacing between ditches, it is very doubtful that much of the initial ditching converted the area from wetland to upland especially the areas that are largely untouched.

We believe that any new ditching in a wetland requires a permit. Maintenance of existing ditches is exempt but cannot convert a wetland to an upland, especially if these ditches were dug for silviculture reasons. Maintenance cannot exceed original contours of the ditch. If a ditched wetland is converted from silviculture to agriculture a permit is required. Agricultural and silvicultural activities are exempt only if part of an established, ongoing operation: "Activities which bring an area into farming or silviculture are not part of an established operation." If the wetland forests converted to pine plantation are nonriverine hardwoods, cypress, or others listed in the 1995 silviculture guidance, a permit is required.

Once we review the file materials we've requested with our FOIA letter, we will be in a better position to understand how this clearing and drainage operation is proceeding without any permits. We view this situation with alarm given the vast acreage involved, and the proximity of the drainage to sensitive coastal waters and fisheries.

Please make this email and attachment part of the official file for the project, and part of the record of decision regarding how this property and its wetlands are regulated.

Thank you.

Todd Miller

Todd Miller, Executive Director

N.C. Coastal Federation 3609 N.C. 24 (Ocean) Newport, N.C. 28570 (252) 393-8185 (252) 393-7508 (fax) (252) 241-0191 (cell)

Thank you for referring new members!

Subscribe to Coastal Review Online at www.nccoast.org

On Aug 29, 2013, at 9:41 AM, "Greer, Emily C SAW" < Emily.C.Greer@usace.army.mil> wrote:

Classification: UNCLASSIFIED Caveats: NONE

Mr. Miller-

On August 7, 2013, Anthony Scarbraugh with NCDENR Division of Water Resources and I met with Mr. Abel Harmon, a representative of Spring Creek Farms LLC (the current property owner), at the properties known as Pamlico County Tax Pin No(s). 6499009986 and 6498171514 as a result multiple citizen complaints of possible conversion of silviculture lands to agriculture lands as well as a request from Mr. Harmon. During the meeting, Mr. Harmon stated the property owner's intent was to clear the above-mentioned properties for agriculture production after receiving the applicable authorization from USACE. Mr. Harmon further stated that no clearing for agricultural purposes would occur without the applicable authorization from USACE. During the inspection, we observed maintenance of the existing drainage ditches, ongoing logging activities, and no clearing of the subject properties that violated wetland standards regulations under the Clean Water Act. The drainage ditches have been present since at least March of 1993 as noted in the attached aerial photograph. We have no knowledge of new ditches installed on the property by Spring Creek Farms, LLC. In accordance with Mr. Harmon's statement during our meeting, a wetland delineation has been completed and the results submitted to this office on August 21, 2013, to be reviewed by the USACE prior to any clearing for agricultural purposes. I have not yet reviewed Mr. Harmon's submittal.

Feel free to contact me with any further questions.

Emily Greer
Program Specialist
U.S. Army Corps of Engineers
Wilmington District-Washington Field Office
2407 West 5th Street
Washington, NC 27889
910.251.4567 (o)
252.975.1399 (f)

----Original Message----

From: Todd Miller [mailto:toddm@nccoast.org]

Sent: Thursday, August 29, 2013 8:47 AM

To: Greer, Emily C SAW

Cc: McLendon, Scott C SAW; Wicker, Henry M JR SAW; Derb Carter

Subject: [EXTERNAL] Large-scale wetland conversion now occurring in Pamlico County?

Dear Emily,

A local farmer in Pamlico County has called me about new ditching and land clearing that is now occurring to convert wetlands to farmland on a 4,000+ acre parcel. His is very concerned that this wetland conversion would be allowed under Section 404 of the federal Clean Water Act. He says he knows the land very well, and it is very wet.

I've attached a map that shows the land that is being ditched. I heard this morning from the local farmer that there are five bulldozers and a dragline on site, and working.

Has this conversion been approved by the U.S. Corps of Engineers? Has a permit been issued to allow this? I would like to review the files on the project, and any other information that will help me better understand how this is allowed to occur.

I would appreciate your response on this matter since the clearing is now underway. We will file any necessary requests under the Freedom of Information Act if that's required.

Thank you.

Todd

Todd Miller, Executive Director N.C. Coastal Federation 3609 N.C. 24 (Ocean) Newport, N.C. 28570 (252) 393-8185 (252) 393-7508 (fax) (252) 241-0191 (cell)

Thank you for referring new members!

Subscribe to Coastal Review Online

Classification: UNCLASSIFIED

Caveats: NONE

<Historic Aerial of Spring Creek Farms LCC Property.jpg>

### Greer, Emily C SAW

From:

Todd Miller [toddm@nccoast.org]

Sent:

Wednesday, September 04, 2013 8:41 AM

To:

McLendon, Scott C SAW; Wicker, Henry M JR SAW; Biddlecome, William J SAW; Anthony

Scarbraugh; Pruitt, Carl E SAW; Greer, Emily C SAW

Cc:

Derb Carter

Subject:

Re: [EXTERNAL] Large-scale wetland conversion now occurring in Pamilico County?

(UNCLASSIFIED)

Attachments:

FOIA request Spring Creek Farms LLC Pamlico County.pdf

Please see attached my FOIA Request for Spring Creek Farms, Pamlico County. A copy of this letter is being sent via the U.S. Postal Service as well. Please let me know if you need any further information regarding this request.

Sincerely,

Todd Miller, Executive Director N.C. Coastal Federation 3609 N.C. 24 (Ocean) Newport, N.C. 28570 (252) 393-8185 (252) 393-7508 (fax) (252) 241-0191 (cell)

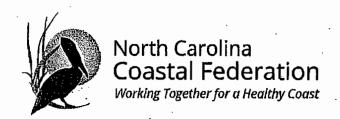
On Aug 29, 2013, at 9:41 AM, "Greer, Emily C SAW" <Emily.C.Greer@usace.army.mil> wrote:

```
> Classification: UNCLASSIFIED
> Caveats: NONE
>
> Mr. Miller-
>
```

> On August 7, 2013, Anthony Scarbraugh with NCDENR Division of Water Resources and I met with Mr. Abel Harmon, a representative of Spring Creek Farms LLC (the current property owner), at the properties known as Pamlico County Tax Pin No(s). 6499009986 and 6498171514 as a result multiple citizen complaints of possible conversion of silviculture lands to agriculture lands as well as a request from Mr. Harmon. During the meeting, Mr. Harmon stated the property owner's intent was to clear the above-mentioned properties for agriculture production after receiving the applicable authorization from USACE. Mr. Harmon further stated that no clearing for agricultural purposes would occur without the applicable authorization from USACE. During the inspection, we observed maintenance of the existing drainage ditches, ongoing logging activities, and no clearing of the subject properties that violated wetland standards regulations under the Clean Water Act. The drainage ditches have been present since at least March of 1993 as noted in the attached aerial photograph. We have no knowledge of new ditches installed on the property by Spring Creek Farms, LLC. In accordance with Mr. Harmon's statement during our meeting, a wetland delineation has been completed and the results submitted to this office on August 21, 2013, to be reviewed by the USACE prior to any clearing for agricultural purposes. I have not yet reviewed Mr. Harmon's submittal.

> Feel free to contact me with any further questions.
>

```
> Emily Greer
> Program Specialist
> U.S. Army Corps of Engineers
> Wilmington District-Washington Field Office
> 2407 West 5th Street
> Washington, NC 27889
> 910.251.4567 (o)
> 252.975.1399 (f)
> ----Original Message----
> From: Todd Miller [mailto:toddm@nccoast.org]
> Sent: Thursday, August 29, 2013 8:47 AM
> To: Greer, Emily C SAW
> Cc: McLendon, Scott C SAW; Wicker, Henry M JR SAW; Derb Carter
> Subject: [EXTERNAL] Large-scale wetland conversion now occurring in Pamlico County?
> Dear Emily,
> A local farmer in Pamlico County has called me about new ditching and land clearing that is
now occurring to convert wetlands to farmland on a 4,000+ acre parcel. His is very concerned
that this wetland conversion would be allowed under Section 404 of the federal Clean Water
Act. He says he knows the land very well, and it is very wet.
> I've attached a map that shows the land that is being ditched. I heard this morning from
the local farmer that there are five bulldozers and a dragline on site, and working.
> Has this conversion been approved by the U.S. Corps of Engineers? Has a permit been issued
to allow this? I would like to review the files on the project, and any other information
that will help me better understand how this is allowed to occur.
> I would appreciate your response on this matter since the clearing is now underway. We
will file any necessary requests under the Freedom of Information Act if that's required.
> Thank you.
> Todd
> Todd Miller, Executive Director
> N.C. Coastal Federation
> 3609 N.C. 24 (Ocean)
> Newport, N.C.
                  28570
> (252) 393-8185
> (252) 393-7508 (fax)
> (252) 241-0191 (cell)
> Thank you for referring new members!
> Subscribe to Coastal Review Online
> Classification: UNCLASSIFIED
> Caveats: NONE
```



September 4, 2013

U.S. Army Corps of Engineers Office of Counsel Attn: FOIA Officer 69 Darlington Avenue Wilmington, NC 28403

Re: Freedom of Information Act Request

Dear FOIA Officer:

Under the Freedom of Information Act (5 U.S.C. Section 552), I am requesting the following documents:

All documents related to activities of Spring Creek Farms LLC in Pamlico County, N.C. including correspondence, emails, phone records, notes, inspection reports, records of site visits, and requests for authorizations of any kind related to activities in Pamlico County, NC.

I would be happy to receive this information in an electronic format either via email, from an FTP site, or on CD or DVD. Please see email from Emily Greer below if you need any further details on the documents and files that I'm requesting.

As a representative of a non-profit conservation group (N.C. Coastal Federation) as well as of our online news service called *Coastal Review Online* (the federation is a member of the N.C. Press Association), I am gathering information on this project that is of current interest to the public because it involves potential conversion of wetlands to farm land in a manner that will not only destroy the wetlands, but which will have major water quality impacts on downstream estuaries and fish habitats.

Please take note of the Office of Management and Budget guidelines published March 27, 1987 (52 FR 10012) that include electronic publications such as *Coastal Review Online* as representatives of the news media. Please also remember that the U.S. Court of Appeals for the District of Columbia has determined that even a nonprofit clearinghouse of information can qualify as a representative of the news media, See National Security Archive v. U.S. Department of Defense, 279 U.S. App. D.C. 308 (D.C. 1989).

I am requesting a waiver of all fees under 5 U.S.C. Section 552(a)(4)(A)(iii). The information I seek is in the public interest because it will contribute significantly to public understanding of the operations or activities of the government and is not primarily in my commercial interest. I believe I meet the criteria for a fee waiver recognized by the U.S. Justice Department - in its policy guidance of April 1987 - and by the federal courts, See Project on Military Procurement v. Department of the Navy, 710 F. Supp. 362 363, 365 (D.C.D. 1989).

My request concerns the operations or activities of government because as stated in the attached email jurisdictional and permit decision are being made that could potentially affect nearly 4,500 acres of land with hydric soils. The land is situated where drainage from this property will have potentially serious consequences for coastal water quality and fisheries productivity.

Also, the information sought has informative value, or potential for contribution to public understanding. Please note the decision in Elizabeth Eudey v. Central Intelligence Agency, 478 F. Supp. 1175 1176 (D.C.D. 1979) (even a single document has the potential for contributing to public understanding). I plan to disseminate this information to the public at large in the following manner: news articles in *Coastal Review Online*, sharing copies with other non-profit conservation groups and interested public, and letters to public officials and decision-makers. We will also use the information to comment directly to the Corps of Engineers on this project. The release of this information will have a significant impact on public understanding because there has currently been no public notice or public discussion of this proposal to convert potential wetlands to farmland.

In your deliberations, please take note of the following cases: Campbell v. U.S. Department of Justice, 334 U.S. App. D.C. (1998)(administrative and seemingly repetitious information is not exempt from fee-waiver consideration); Project on Military Procurement (agencies cannot reject a fee waiver based on the assumption that the information sought is covered by a FOIA exemption; and Landmark Legal Foundation v. Internal Revenue Service, 1998 U.S. Dist. LEXIS 21722 (D.C.D. 1998)(the fact that the information will soon be turned over to a public body does not exempt the material from fee-waiver consideration).

I look forward to your response within the 20 working days, as outlined by the statute.

Thank you in advance,

Todd Miller, Executive Director

Tall Mule

N.C. Coastal Federation

3609 N.C. 24 (Ocean)

Newport, N.C. 28570

(252) 393-8185

(252) 393-7508 (fax)

(252) 241-0191 (cell)

cc: Derb Carter, SELC

Classification: UNCLASSIFIED

Caveats: NONE

Mr. Miller-

On August 7, 2013, Anthony Scarbraugh with NCDENR Division of Water Resources and I met with Mr. Abel Harmon, a representative of Spring Creek Farms LLC (the current property owner), at the properties known as Pamlico County Tax Pin No(s), 6499009986 and 6498171514 as a result multiple citizen complaints of possible conversion of silviculture lands to agriculture lands as well as a request from Mr. Harmon. During the meeting, Mr. Harmon stated the property owner's intent was to clear the above-mentioned properties for agriculture production after receiving the applicable authorization from USACE. Mr. Harmon further stated that no clearing for agricultural purposes would occur without the applicable authorization from USACE. During the inspection, we observed maintenance of the existing drainage ditches. ongoing logging activities, and no clearing of the subject properties that violated wetland standards regulations under the Clean Water Act. The drainage ditches have been present since at least March of 1993 as noted in the attached aerial photograph. We have no knowledge of new ditches installed on the property by Spring Creek Farms, LLC. In accordance with Mr. Harmon's statement during our meeting, wetland delineation has been completed and the results submitted to this office on August 21, 2013, to be reviewed by the USACE prior to any clearing for agricultural purposes. I have not yet reviewed Mr. Harmon's submittal.

Feel free to contact me with any further questions.

Emily Greer
Program Specialist
U.S. Army Corps of Engineers
Wilmington District-Washington Field Office
2407 West 5th Street
Washington, NC 27889
910.251.4567 (o)
252.975.1399 (f)

Document ID:	0017	-
NON-EXEMPT	PARTIALLY EXEMPT	EXEMPT

### Wylie, Mike

From: Sent: Todd Miller <toddm@nccoast.org> Tuesday, June 03, 2014 6:58 AM

To:

Wylie, Mike

Cc:

Evans, David; Linn, Jennifer

Subject:

Fwd: continued ditching on Atlas Tract

Mike,

These photos were sent to me this morning by the farmer next door to the Atlas Tract in Pamlico County. Looks like the final steps of the conversion of these wetlands to agriculture are taking place. Given that this portion of the property was shown as wetlands on the National Wetland Inventory (and the adjacent higher elevation farmland is classified as Prior Converted Wetlands by NRCS), the next national assessment of coastal wetland losses will show this as an additional loss of 250 acres (plus additional acreage from other losses due to ditching throughout the 4,600 acre property).

We requested copies of any permits issued by the Corps that authorized the original ditches that were dug on this land sometime that occurred between 1987 and 1990. The Corps has indicated that no permits were ever issued. Thus, if these original ditches converted this land to uplands, that was done so illegally. Spring Creek Farms, LLC is not registered to do business in N.C.

I understood from Derb Carter that an enforcement letter was in the works on this property. What is the status of that letter?

Best regards, Todd

Begin forwarded message:

From: Todd Miller < toddm@nccoast.org > Subject: continued ditching on Atlas Tract

Date: June 3, 2014 at 6:42:00 AM EDT

To: "Jarvis, Craig" <ciarvis@newsobserver.com>

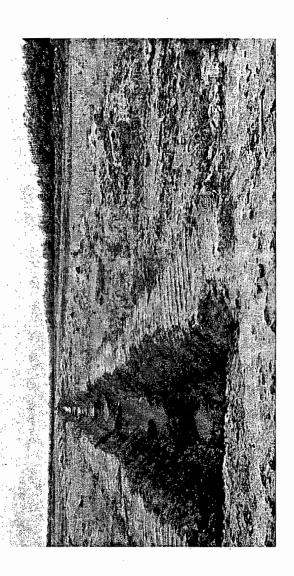
Here are two photos I received this morning from a local farmer that shows additional ditching on the Atlas property. The ditches are being put between the older ditches to provide a spacing the is typical of agricultural drainage (about every 330 feet apart). The final photo is the same location in April. Todd

Subject: [FWD: ]

Date: June 3, 2014 at 6:29:32 AM EDT To: "Todd Miller" <toddm@nccoast.org>



Begin forwarded message:



same spot 4/25/2014 in first photo



ocument ID:	<u>`\</u>	0	0	<u>0 (</u>	19
		_			

✓ NON-EXEMPT \_\_\_\_ PARTIALLY EXEMPT

# Wylie, Mike

From:

Todd Miller <toddm@nccoast.org>

Sent:

Wednesday, September 17, 2014 7:16 PM

To:

Wylie, Mike

Cc:

Derb Carter

Subject:

Fwd: Atlas tract today

Sent from my iPhone

Begin forwarded message:

Date: September 17, 2014 at 5:20:25 PM EDT

To: Todd Miller < toddm@nccoast.org >

Subject: Atlas tract today



Sent from my iPhone

Document ID:	<u> </u>	_
NON-EXEMPT	PARTIALLY EXEMPT	EXEMPT

## Wylie, Mike

From:

Todd Miller < toddm@nccoast.org>

Sent:

Thursday, September 11, 2014 2:36 PM

To:

Wylie, Mike

Cc:

Derb Carter

Subject:

Fwd: Atlas tract-spring creek farms update

Mike,

I recently received the following report from a local farmer regarding activities occurring on the Atlas Tract. I'd appreciate an update on the status of EPA's actions regarding this property since it appears that they are still working on farming the recently converted wetland acreage (when the property isn't too wet to work!).

Best regards, Todd

Todd Miller, Executive Director N.C. Coastal Federation 3609 N.C. 24 (Ocean) Newport, N.C. 28570 (252) 393-8185 (252) 393-7508 (fax) (252) 241-0191 (cell)

Thank you for referring new members!

Subscribe to Coastal Review Online: www.nccoast.org

It has been too wet for them to work all but about two weeks the last week of May and the first week of June. That's when they dug their new ditches. Last week got dry enough for them to work again and they had 4 trucks of lime hauled in and dumped and a big 4-wheel drive tractor and new ground plow to start plowing up the grass that is about 3 feet tall. It rained almost three inches yesterday and today so that will slow them some.

Document ID:	_ <u> </u>	_
NON-EXEMPT	PARTIALLY EXEMPT	EXEMPT



IN REPLY REFER TO

# DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS

Washington Regulatory Field Office 2407 W 5<sup>th</sup> Street Washington, North Carolina 27889

04 November 2013

County of Pamlico Board of Commissioners P.O. Box 776 Bayboro, North Carolina 28515

Dear Commissioners:

To address concerns raised by local citizens regarding the presence of wetlands subject to U.S. Army Corps of Engineers jurisdiction at the Spring Creek Farm tract, we have prepared the following statement for you to disseminate to the public at the Town Meeting tonight or as you see fit.

On August 7, 2013, representatives of the U.S. Army Corps of Engineers, Wilmington District met with Department of Environment and Natural Resources-Division of Water Resources personnel and a Spring Creek Farms representative, Mr. Able Harmon, on a tract owned by Spring Creek Farms, LLC located on Trent Road in Merritt, Pamlico County, North Carolina.

The meeting's purpose was to determine if waters or wetlands of the United States, subject to the requirements of Section 404 of the Clean Water Act, were present on a 250-acre parcel that is part of a larger 4600+ acre tract. A thorough investigation was conducted utilizing current guidance for making wetland determinations including the 1987 Corps of Engineers Wetland Delineation Manual and the Atlantic and Gulf Coastal Plain Regional Supplement to the 1987 Manual. The investigation of the 250-acres revealed the hydrology parameter was not met; therefore, the project area is not a wetland and is not subject to Clean Water Act jurisdiction.

At this time, the Corps has not assessed any other portion of the 4600+ acres. Additionally, the Corps has not been provided with any evidence indicating a violation of federal law has been made by the current owners or their operators. While we appreciate concerns for the environment as they relate to wetland impacts, the Corps is not soliciting public comment regarding this upland area since there are no permits associated with work being conducted on the 250-acres.

Sincerely,

William J. Biddlecome

Chief, Washington Regulatory Field Office

## U.S. ARMY CORPS OF ENGINEERS

### WILMINGTON DISTRICT

Action Id. SAW-2013-01700 County: Pamlico U.S.G.S. Quad: NC-ORIENTAL

### NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner:

Mr. Mark Beck

Spring Creek Farms, LLC

Address:

19051 Athens Black Top Road

Petersburg, Illinois 62675

Size (acres)

250

Nearest Town Merritt

Nearest Waterway

Fork Run

River Basin

Pamlico Sound. North Carolina.

**USGS HUC** 3020105

Latitude: 35.075446

Coordinates

Longitude: -76.688869

Location description: The property is located south of Trent Road, approximately 1.5 miles east of Highway 55 in Merritt, Pamlico, North Carolina. The project area assessed comprises 250 acres of siviculture land with ditching spaced approximately 650 feet apart, which has allowed for adequate drainage of the site and removing this indicator from the needed parameters to meet the criteria for a wetland.

## Indicate Which of the Following Apply:

### A. Preliminary Determination

Based on preliminary information, there may be wetlands on the above described property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD.

### **B.** Approved Determination

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are waters of the U.S. including wetlands on the above described property subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
  - We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.
  - The waters of the U.S. including wetlands on your project area have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.
  - The waters of the U.S. including wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on \_\_\_\_\_. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are no waters of the U.S., to include wetlands, present on the above described project area which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our

published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Morehead City, NC, at (252) 808-2808 to determine their requirements.

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact <u>Emily Greer</u> at <u>910-251-4567 or</u> <u>Emily.C.Greer@usace.army.mil.</u>

- C. Basis For Determination: The project area (250 acres) does not exhibit the hydrology indicator needed to meet the criteria for a determination of wetland according to the 1987 Corps Wetland Delineation Manual and the Atlantic and Gulf Coastal Plain Regional Supplement (Supplement) to the 1987 Wetland Delineation Manual.
- D. Remarks: None

## E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

# F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

US Army Corps of Engineers South Atlantic Division Attn: Jason Steele, Review Officer 60 Forsyth Street SW, Room 10M15 Atlanta, Georgia 30303-8801

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **December 30, 2013**.

\*\*It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.\*\*

correspondence.

GREER.EMILY.C.138532530

Digitally signed by GREER.EMILY.C.1385325300 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=GREER.EMILY.C.1385325300

Corps Regulatory Official:

\_\_\_\_\_\_\_Date: 2013.10.02 13:38:18 -04'00

Date: October 1, 2013 Expiration Date: October 1, 2018

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the attached customer Satisfaction Survey or visit <a href="http://per2.nwp.usace.armv.mil/survey.html">http://per2.nwp.usace.armv.mil/survey.html</a> to complete the survey online.

#### NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL Applicant: Mr. Mark Beck File Number: SAW-2013-01700 Date: October 1, 2013 Attached is: See Section below INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission) PROFFERED PERMIT (Standard Permit or Letter of permission) В PERMIT DENIAL C APPROVED JURISDICTIONAL DETERMINATION $\overline{\mathsf{D}}$ PRELIMINARY JURISDICTIONAL DETERMINATION

E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision Additional information may be found at http://www.usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

### A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT: You may accept or appeal the permit
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.
- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety; and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

preliminary JD. The Preliminary JD is not appealable. If yo by contacting the Corps district for further instruction. Also Corps to reevaluate the JD.			
SECTION II - REQUEST FOR APPEAL or OBJECTIONS	TO AN INITIAL PROFFERED	PERMIT	
	REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)		
•		•	
		•	
· · · · · · · · · · · · · · · · · · ·	· <u>· · · · · · · · · · · · · · · · · · </u>		
ADDITIONAL INFORMATION: The appeal is limited to a record of the appeal conference or meeting, and any supplem clarify the administrative record. Neither the appellant nor to However, you may provide additional information to clarify record.	nental information that the review he Corps may add new informati	w officer has determined is needed to ion or analyses to the record.	
POINT OF CONTACT FOR QUESTIONS OR INFORMA	FION:	中心的心态。在150mm,150mm,150mm。	
If you have questions regarding this decision and/or the		arding the appeal process you may	
appeal process you may contact:  District Engineer, Wilmington Regulatory Division,	also contact: Mr. Jason Steele, Administrativ	ve Appeal Review Officer	
Attn: Emily Greer	CESAD-PDO	o rippedi neview o meei	
-	U.S. Army Corps of Engineers		
	60 Forsyth Street, Room 10M1	5	
	Atlanta, Georgia 30303-8801 Phone: (404) 562-5137	· .	
RIGHT OF ENTRY: Your signature below grants the right		ersonnel, and any government	
consultants, to conduct investigations of the project site during	ng the course of the appeal proce	ess. You will be provided a 15 day	
notice of any site investigation, and will have the opportunit			
	Date:	Telephone number:	
Signature of appellant or agent.			

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the

For appeals on Initial Proffered Permits send this form to:

District Engineer, Wilmington Regulatory Division, Attn: Emily Greer, 69 Darlington Avenue, Wilmington, North Carolina 28403

For Permit denials, Proffered Permits and approved Jurisdictional Determinations send this form to:

Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Jason Steele, Administrative Appeal Officer, CESAD-PDO, 60 Forsyth Street, Room 10M15, Atlanta, Georgia 30303-8801 Phone: (404) 562-5137

Document ID:	<u> ఆవ</u>	-
NON-EXEMPT _	PARTIALLY EXEMPT	EXEMPT

August 9, 2013

8/21/13

**Emily Greer** 

**US Army Corps of Engineers** 

2407 W. 5th Street

Washington, North Carolina 27889

Emily,

Please reference our onsite meeting on August 7, 2013, at property owned by Spring Creek Farms, LLC, located off State Road 1322 (Trent Road) near Merritt, in Pamlico County, North Carolina. As requested, I have attached a location map of the Project Area with the location of my Sample data points for the Wetland Data Sheets. I prepared four separate data sheets, one within each block of ditches and covering both soil types mapped on the property. Although I conducted my field work in early June of this year, the rainfall for the area has been near or slightly above average. I believe the extensive network of drainage ditches on the tract has resulted in the removal of the hydrology parameters required to meet the wetland criteria described in the 1987 Corps of Engineers Wetland Delineation Manual and subsequent Regional Supplement for the Atlantic and Gulf Coastal Plain Region. Both the Arapahoe and Stockade soil types mapped on the tract are Hydric and the vegetation parameter is met through the FAC-Neutral Test. As discussed onsite, your review confirmed my determination that the site no longer supports hydrology sufficient to meet the Section 404 wetland classification. In this regard, please provide your confirmation in writing so the owner can begin his preparations to clear the property and remove the stumps and woody vegetative debris. He will plan to windrow and burn piles as conditions permit.

Thank You for your prompt response to meet with me onsite and review the property. The Project Area that we met on is approximately 251 acres and outlined in red on the location map. Please let me know if you need anything else from me on this site and I will certainly look forward to working with you in the future to continue work on the land. I am providing the appropriate contact information below for me and the property owner. Thanks again for all your help!

Sincerely,

**Abel Harmon** 

1255 Juniper Bay Road

Swan Quarter, North Carolina 27885

252-916-5602

Mark Beck

Spring Creek Farms, LLC

19051 Athens Black Top Road

Petersburg, Illinois 62675

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SE A.	CCTION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): October 1, 2013
В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Wilmington District, Spring Creek Farms, LLC-Conversion, SAW-2013-01700
С.	PROJECT LOCATION AND BACKGROUND INFORMATION:  State: North Carolina County/parish/borough: Pamlico City: Merritt  Center coordinates of site (lat/long in degree decimal format): Lat. 35.075446°, Long76.688869°  Universal Transverse Mercator: 18 346021.86 3882714.11  Name of nearest waterbody:  Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Fork Run  Name of watershed or Hydrologic Unit Code (HUC): Pamlico Sound. North Carolina., 3020105  Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form:
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):  Office (Desk) Determination. Date:  Field Determination. Date(s): 7 August 2013
SE A.	CCTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	rere Areno "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the view area. [Required]  Waters subject to the ebb and flow of the tide.  Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
Th	ere Areno "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required
	1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):  TNWs, including territorial seas  Wetlands adjacent to TNWs  Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs  Non-RPWs that flow directly or indirectly into TNWs  Wetlands directly abutting RPWs that flow directly or indirectly into TNWs  Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs  Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs  Impoundments of jurisdictional waters  Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area:  Non-wetland waters: linear feet, wide, and/or acres.  Wetlands: acres.
	c. Limits (boundaries) of jurisdiction based on: 1987; Delineation: Manual Elevation of established OHWM (if known):
	<ul> <li>Non-regulated waters/wetlands (check if applicable):<sup>3</sup></li> <li>Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:</li> </ul>
SE	ECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

Boxes checked below shall be supported by completing the appropriate sections in Section III below.

For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1.	TNW Identify TNW:	
	0	

Summarize rationale supporting determination:

### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i)	General Area Conditions: Watershed size: Pick List Drainage area: Pick List
	Average annual rainfall: inches
	Average annual snowfall: inches
(ii)	Physical Characteristics:
` ,	(a) Relationship with TNW:
	☐ Tributary flows directly into TNW.
	Tributary flows through Pick List tributaries before entering TNW.
	Project waters are Pick List river miles from TNW.
	Project waters are <b>Pick List</b> river miles from RPW.
	Project waters are Pick List aerial (straight) miles from TNW.
	Project waters are <b>Pick List</b> aerial (straight) miles from RPW.
	Project waters cross or serve as state boundaries. Explain:
	Identify flow route to TNW <sup>5</sup> :
	Tributary stream order, if known:
	(b) General Tributary Characteristics (check all that apply):
	Tributary is: Natural
	Artificial (man-made). Explain:
	Manipulated (man-altered). Explain:

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

		Tributary properties with respect to top of bank (estimate):  Average width: feet  Average depth: feet  Average side slopes: Pick List.
,÷		Primary tributary substrate composition (check all that apply):  Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
	÷	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: Tributary geometry: Pick List Tributary gradient (approximate average slope):
	(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
		Surface flow is: Pick List. Characteristics:
		Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:
		Tributary has (check all that apply):  Bed and banks  OHWM <sup>6</sup> (check all indicators that apply):  clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list):  Discontinuous OHWM. Explain:
		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):    High Tide Line indicated by:   Mean High Water Mark indicated by:   survey to available datum;   physical markings;   physical markings/characteristics   physical markings;   vegetation lines/changes in vegetation types.   itidal gauges   other (list):
(iii)	Cha E	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). xplain: ttify specific pollutants, if known:
(iv)		logical Characteristics. Channel supports (check all that apply):  Riparian corridor. Characteristics (type, average width):  Wetland fringe. Characteristics:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

Tibid.

### 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

	(i)		ysical Characteristics:	,		
		(a)	General Wetland Characteristi	cs:		
			Properties:			
			Wetland size: acres			
			Wetland type. Explain:			
			Wetland quality. Explain:			
			Project wetlands cross or serve	as state boundaries. Expla	in:	
		(b)	General Flow Relationship wi	th Non-TNW:		
		, ,	Flow is: Pick List. Explain:			
			Surface flow is: Pick List Characteristics:			
			Subsurface flow: Pick List. E			
		(c)	Wetland Adjacency Determina	ation with Non-TNW:		
		` '	☐ Directly abutting		•.	
			☐ Not directly abutting			
			☐ Discrete wetland hydro	logic connection. Explain:		
			Ecological connection.	Explain:	•	
			Separated by berm/barr	ier. Explain:		
		(d)	Proximity (Relationship) to Ti			
			Project wetlands are Pick List		·	
			Project waters are Pick List a	erial (straight) miles from	ΓNW.	
			Flow is from: Pick List.		agracings with a com-	
			Estimate approximate location	of wetland as within the R	ick List floodplain.	
	(ii)	Che	emical Characteristics:			
		Cha	aracterize wetland system (e.g.,	water color is clear, brown,	oil film on surface; water qua	lity; general watershed
			haracteristics; etc.). Explain:			
		Ider	ntify specific pollutants, if know	n;		
	(iii)	Bio	logical Characteristics. Wetla	nd supports (check all the	at apply):	•
	()		Riparian buffer. Characteristics			
			Vegetation type/percent cover.			
			Habitat for:	•		
		_	☐ Federally Listed species. I	Explain findings:		
			Fish/spawn areas. Explain			
			Other environmentally-sen		lings:	
			Aquatic/wildlife diversity.	Explain findings:	_	
3.	Cha	ract	teristics of all wetlands adjace	at to the tributary (if any)		
٥.	Cita		wetland(s) being considered in			
				are being considered in the		
		For	each wetland, specify the follow	ving:		
			Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
					1	

Summarize overall biological, chemical and physical functions being performed:

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent

wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and
  other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of
  presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to
  Section III.D:

D.	DETERMINATIONS OF JURISDICTIONAL FIN	NDINGS. T	HE SUBJECT W	ATERS/WETLAN	DS ARE (	CHECK A	LL
	THAT APPLY):						

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:  TNWs: linear feet, wide, Or acres.  Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs.  Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:  Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flow seasonally:
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet wide.  Other non-wetland waters: acres.  Identify type(s) of waters:
3.	Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply):  Tributary waters: linear feet, wide.  Other non-wetland waters: acres.  Identify type(s) of waters:
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

<sup>8</sup>See Footnote # 3.

		Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
		☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
		Provide acreage estimates for jurisdictional wetlands in the review area: acres.
	5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
		Provide acreage estimates for jurisdictional wetlands in the review area: acres.
	6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.  Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
		Provide estimates for jurisdictional wetlands in the review area: acres.
	7.	Impoundments of jurisdictional waters.  As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.  Demonstrate that impoundment was created from "waters of the U.S.," or  Demonstrate that water meets the criteria for one of the categories presented above (1-6), or  Demonstrate that water is isolated with a nexus to commerce (see E below).
E.		DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:  Other factors. Explain:
	Ide	ntify water body and summarize rationale supporting determination:
		vide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet, wide. Other non-wetland waters: acres. Identify type(s) of waters: Wetlands: acres.
F.		ON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):  If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.  Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.  Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).  Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above):
	fact	vide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR tors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional gment (check all that apply):

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

	Non-wetland waters (i.e., rivers, streams): linear feet, wide.  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource:  Wetlands: acres.
•	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet, wide.  Lakes/ponds: acres.
	Other non-wetland waters: acres. List type of aquatic resource:  Wetlands: acres.
SEC	CTION IV: DATA SOURCES.
A.	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Location map
	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
	Office concurs with data sheets/delineation report.
	Office does not concur with data sheets/delineation report.
	Data sheets prepared by the Corps:
	Corps navigable waters' study:
	U.S. Geological Survey Hydrologic Atlas:
	☐ USGS NHD data. ☑ USGS 8 and 12 digit HUC maps.
	☐ U.S. Geological Survey map(s). Cite scale & quad name: 1:24K; NC-ORIENTAL
	✓ USDA Natural Resources Conservation Service Soil Survey. Citation:
	http://casoilresource.lawr.ucdavis.edu/soil_web/export.php?format=kmz&srid=4326&
	National wetlands inventory map(s). Cite name: http://www.fws.gov/wetlands/Data/Google-Earth.html
	State/Local wetland inventory map(s):
	FEMA/FIRM maps:
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	Photographs: Aerial (Name & Date): Google Earth 3.6.1993; 1.24.1998; 12.31.2002; 5.23.2003; 10.16.2005; 3.30.2008; 12.31.2011
	or Other (Name & Date):
	Previous determination(s). File no. and date of response letter:
	Applicable/supporting case law:
	Applicable/supporting scientific literature:
	Other information (please specify):
В.	ADDITIONAL COMMENTS TO SUPPORT JD:

The hydology indicator is not present; therefore, no wetlands are present and no permit is required.